# FY2019 Recommended: Bond $544,321

| | | | |
|---|---|---|---|
| **Project Number:** | TECH/Technology/2019/A | **Budget Year:** | 2019 |
| **Project Title:** | Radio Communications Upgrade | **Scenario:** | Main 2019 |
| **Asset Type:** | NETWORKS | **Budget Status:** | Department Request |
| **Department:** | C7-155 - Technology Services | **Regions:** | |
| **Project Type:** | Town Technology Hardware | **Active:** | Yes |
| **Year Identified:** | 2018 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

The following proposal is being presented as a complete Framingham radio communication upgrade. This upgrade will prepare Framingham for the future by adding repeater sites to resolve dead spots currently reported by the Framingham Police Department. Additionally, the radio system upgrade will assist with the digital upgrade that is being required by Verizon with their copper to fiber migration. Lastly, the project will supply the Parks and Recreation Department with an update to their aging VHF radio system.

## Comments:

## Justification:

This project consists of three major components –
1. The radio equipment (quotes from Motorola and their integration partner Voorhees Communication)
2. Fiber optic needs (quotes are provided by Comm-Tract Corp.)
3. Switching, optics and network engineering services (quotes provided by EPlus)

Below is a proposed breakdown by agency and what their requirements are. The unknown costs at this time are Detail costs for the fiber optic installations which we are responsible for paying, as well as the cost of the necessary leased T1 lines to Staples and the tower on Chrysler road in Natick.

Fire Department requirements
Upgrade the repeater at Framingham State and relocate it to the MSP (Mass State Police) tower on Rt9.
Upgrade the repeater from Metrowest Medical tower and relocate to Doeskin Water tank.
Install a new receiver at DPW Tower/Western Ave.
Upgrade the receivers installed at Stapleton School, High School, Staples (9/90 Complex).
Update to new comparator and gateways at Fire Dispatch.

Police requirements
Upgrade the existing repeater at the MSP tower on RT9.
Upgrade to new comparator hardware and gateways at Police HQ.
Upgrade the existing receiver at Stapleton School.
Upgrade the existing receiver at the High School.
Current hardware installed at the MSP tower on Nobscot Mountain is ok.
Current hardware installed at the Chrysler road tower in Natick is ok.
Install a new receiver at DPW Tower at Western Ave.
Install a new receiver at Staples (9/90 Complex).
Install a new receiver at BeeBees Water tank on Edmunds Rd.

DPW requirements
DPW needs a fiber connection from the repeater at the MSP tower on Rt9 to the MSP tower on Nobscot Mountain, since this connection cannot be made with a microwave connection without a tower at the Indian head water tank.

Park and Recreation Requirements
Park and Rec is by far the oldest system and cannot be upgraded; they are currently running on a legacy VHF channel that is a non-repeater system. The recommendation is to move them to a new frequency. Since it will be difficult to get a new frequency for a non-emergency responder, DPW Water department can apply for a new frequency; they can then be migrated to the new frequency and the existing frequency can be re-purposed for the Park and Rec department. Park and Rec will need a complete upgrade of the existing subscriber radios (truck mounted) and a new transmitter as well. Exixting DPW radios will need to be reprogrammed to the new frequency.

Building Services
No upgrades needed at this time; they currently use the existing emergency band and do very little radio communication.

School and Transportation
No upgrades needed at this time; they are already running on a digital system and connecting the sites over their fiber optic network. Since they are not considered a first responder they are allowed to have the radio traffic over a shared medium.

Fiber and network requirements

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Fiber will have to be run between the Doeskin Water tank and the MSP tower on Nobscot Mountain; this will tie into the existing municipal fiber backbone. We will need to install a fiber connection to the MSP equipment shed located at the MSP facility located on Rt9. This will allow us to run a direct connection between the DPW comparator and the repeater.

New Verizon leased T1 from Staples to Framingham Police HQ
New Verizon leased T1 from Chrysler Road to Framingham Police HQ

Install fiber from the existing municipal fiber backbone to the electrical room at Stapleton School and the High School. All of the fiber will need to be connected back to the 3rd floor of Police HQ where the main the switch will be located to connect it all together.

**Description:**

**Comments:**

**Project Forecast**

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 544,321 | 0 | 544,321 |
| | **544,321** | **0** | **544,321** |

**Radio Upgrade FY2019**

| Item | Total | Source/vendor | |
|---|---|---|---|
| Radio System Upgrade | $ 454,144.60 | Quote - Motorola/Voorhees | (See below for breakdc |
| Networking | $ 46,991.04 | Quote - ePlus | |
| Fiber installation | $ 32,575.00 | Quote - Comm-tract | |
| T1 lines (2) | $ 2,610.08 | State contract - Verizon | |
| Details | $ 8,000.00 | Estimate 2 officers/day for 10 days | |
| | **$ 544,320.72** | | |

| | |
|---|---|
| FIRE DISPATCH | 22,302.50 |
| POLICE DISPATCH | 22,302.50 |
| WESTERN AVE TOWER | 31,577.00 |
| STAPLES | 31,577.00 |
| SP WORCESTOR RD TOWER | 36,176.00 |
| SP NOBSCOTT TOWER | 22,276.44 |
| NOBSCOTT WATER TANK | 36,906.80 |
| HIGH SCHOOL A STREET | 31,577.00 |
| STAPLETON SCHOOL | 31,577.00 |
| CHRYSLER RD TOWER | 14,710.50 |
| BB WATER TANK | 35,556.94 |
| PARK AND REC SYSTEM | 117,604.92 |
| System engineering | 20,000.00 |
| | **454,144.60** |

# FY2019 Recommended: Free Cash $186,000

| | | | |
|---|---|---|---|
| **Project Number:** | TECH/Technology/2019/B | **Budget Year:** | 2019 |
| **Project Title:** | Archived Document Scanning - Phase VII | **Scenario:** | Main 2019 |
| **Asset Type:** | | **Budget Status:** | Department Request |
| **Department:** | C7-155 - Technology Services | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

**Description:**

Continuation of digitizing paper documents to aid in retrieval as well as for document preservation.

**Comments:**

**Justification:**

Phase VII of this project will continue with year 3 of 3 for the project that began in FY17, focusing on Police, Fire, Human Resources, DPW/Engineering, and Veterans Services.

**Description:**

**Comments:**

**Project Forecast**

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 186,000 | 0 | 186,000 |
| | **186,000** | **0** | **186,000** |

## Scope of Work for Town of Framingham- LaserFiche Integration

### Police Department - Master Name Cards

| | |
|---|---|
| 30 | Number of Shelves (6 rows of 1 ln/ft) |
| 180 | Number of linear feet of Cards (double-sided) |
| 144,000 | Number of Cards (180 ln/ft x 800 cards) (2 images per card) |
| 288,000 | Number of Images |
| 144,000 | Index at the Card Level by Name (Last, First) |

| Quantity | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 144,000 | LF1-DS-Cards | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 13,942.08 |
| 144,000 | LF13-Name | Indexing (data entry) up to 20 characters per Card (Name, L,F) | $ 0.14420 | $ 20,764.80 |
| 288,000 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 2,966.40 |
| 46 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 5,922.50 |
| 16 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 2,060.00 |
| 16 | LF17-Pack | Hourly rate for additional clerical/doc preparation | $ 26.78 | $ 428.48 |
| 2.0 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 1,133.00 |
| | | **Police Department - Master Name Cards** | | **$ 47,217.26** |

### Police Department - Incident Reports and Arrests

| | |
|---|---|
| 65 | Number of Shelves (19 shelves x 3 ln/ft + 46 shelves x 4 ln/ft) |
| 241 | Number of linear feet of Incident Reports/Arrests |
| 12,050 | Number of Incident Reports/Arrests (241 ln/ft x 40 reports) (50 pages per) |
| 602,500 | Number of Images (241 ln/ft x 2,000 pages)+ 25% double-sided |
| 12,050 | Index at the Incident Level by Category, Date, Case # |
| | Includes photos, envelops do not need to be scanned |
| | Many of the forms are double-sided |

| Quantity | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 602,500 | LF1-heavy prep | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes heavy prep and 100% QC | $ 0.12360 | $ 74,469.00 |
| 12,050 | LF13 | Indexing (data entry) up to 30 characters per Folder or Doc Set | $ 0.21630 | $ 2,606.42 |
| 602,500 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 6,205.75 |
| 42 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 5,407.50 |
| 24 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 3,090.00 |
| 80 | LF17-Pack | Hourly rate for packing boxes and additional clerical/doc preparation | $ 26.78 | $ 2,142.40 |
| 3.0 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 1,699.50 |
| | | **Police Department - Incident Reports and Arrests** | | **$ 95,620.57** |

## Police Department - Police Logs

| | |
|---|---|
| 8 | Number of Shelves (21 Binders per shelf) |
| 168 | Number of Binders |
| 42,000 | Number of Images (168 binders x 250 pages per) |
| 168 | Index at the Binder Level by Date (to and from) |

| Quantity | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 42,000 | LF1-heavy prep | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes heavy prep and 100% QC | $ 0.12360 | $ 5,191.20 |
| 168 | LF14 | Indexing (data entry) up to 50 characters per Folder or Doc Set | $ 0.36050 | $ 60.56 |
| 42,000 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 432.60 |
| 8 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,030.00 |
| 8 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,030.00 |
| 3 | LF17-Pack | Hourly rate for additional clerical/doc preparation | $ 26.78 | $ 80.34 |
| 1.0 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 566.50 |
| | | **Police Department - Police Logs** | | **$ 8,391.20** |

## Police Department - Roll Film of Incidents

| | |
|---|---|
| 400 | Number of 16mm Roll Film Cartridges |
| 100,000 | Number of Images (400 rolls x 2,500 images) |
| 400 | Index at the Roll Level by Roll Number |

| Quantity | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 100,000 | LF7 | Scan 16mm Roll Microfilm (200 or 300 dpi) B&W or Grayscale | $ 0.03090 | $ 3,090.00 |
| 400 | LF12 | Indexing (data entry) up to 10 characters per Roll | $ 0.07210 | $ 28.84 |
| 100,000 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 1,030.00 |
| 4 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| 4 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| | | **Police Department - Roll Film of Incidents** | | **$ 5,178.84** |

**Police Department -Personnel Files**

| | |
|---|---|
| 14 | Number of Drawers |
| 28 | Number of linear feet of files (14 drawers x 2 ln/ft) |
| 450 | Number of Personnel Files |
| 2,700 | Number of Sections (6 sections per file) |
| 56,000 | Number of Images (28 ln/ft x 2,000 pages) |
| 450 | Index at the File Level by Name (Last, First) |
| 2,700 | Index at the Section Level (by Section Name) |
| | Active and Inactive |

| Quantity | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 56,000 | LF1-DS-Cards | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 5,421.92 |
| 450 | LF13-Name | Indexing (data entry) up to 20 characters per Card (Name, L,F) | $ 0.14420 | $ 64.89 |
| 56,000 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 576.80 |
| 8 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,030.00 |
| 8 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,030.00 |
| 6 | LF17-Pack | Hourly rate for additional clerical/doc preparation | $ 26.78 | $ 160.68 |
| 1.0 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 566.50 |
| | | **Police Department -Personnel Files** | | **$ 8,850.79** |

**Police Department - Financial Summary**

| | |
|---|---|
| Police Department - Master Name Cards | $ 47,217.26 |
| Police Department - Incident Reports and Arrests | $ 95,620.57 |
| Police Department - Police Logs | $ 8,391.20 |
| Police Department - Roll Film of Incidents | $ 5,178.84 |
| Police Department -Personnel Files | $ 8,850.79 |
| **Total** | **$ 165,258.66** |

## Fire Department -Commercial Property Files

| | |
|---|---|
| 27 | Number of lateral file cabinets (4 drawers 30" each) |
| 270 | Number of linear feet of files (27 cab x 4 drawers x 2.5 ln/ft) |
| 3,240 | Number of files ( 270 ln/ft x 12 files per ln/ft) |
| 534,600 | Number of Small Document Images (270 ln/ft x 1,800 pages)+ 10 double-sided |
| 8,100 | Number of large Documents (over 11x17) (270 ln/ft x 30 dwgs per ln/ft) |
| 542,700 | Total Number of Images for Upload (534,600 + 8,100) |
| 3,240 | Index at the File Level by Street Address |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 534,600 | LF1 | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 51,759.97 |
| 8,100 | LF3 | Scan Large Format - Folded (over 11"x 17" - up to 36"x48") at 300 dpi into B&W or Color, includes QC | $ 1.28750 | $ 10,428.75 |
| 3,240 | LF13 | Indexing (data entry) up to 30 characters per Folder | $ 0.21630 | $ 700.81 |
| 542,700 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 5,589.81 |
| 36 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 4,635.00 |
| 12 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,545.00 |
| 24 | LF17-Pack | Hourly rate for packing boxes and additional clerical/doc preparation | $ 26.78 | $ 642.72 |
| 3.0 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 1,699.50 |
| | | **Fire Department -Commercial Property Files** | | **$ 77,001.56** |

## Fire Department - Residential Permits

| | |
|---|---|
| 9 | Number of Shelves (3 ln/ft) |
| 27 | Number of linear feet of files |
| 27,000 | Number of Permits (27 ln/ft x 1,000 permits) |
| 54,000 | Number of Images (27 ln/ft x 2,000 pages) |
| 27,000 | Index at the Permit Level by Year, Permit # and Address |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 54,000 | LF1 | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 5,228.28 |
| 27,000 | LF13 | Indexing (data entry) up to 30 characters per Folder | $ 0.21630 | $ 5,840.10 |
| 54,000 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 556.20 |
| 30 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 3,862.50 |
| 4 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| 4 | LF17-Pack | Hourly rate for additional clerical/doc preparation | $ 26.78 | $ 107.12 |
| 2.0 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 1,133.00 |
| | | **Fire Department - Residential Permits** | | **$ 17,242.20** |

## Fire Department -Incident Reports

| | |
|---|---|
| 54 | Number of Shelves (3 ln/ft) |
| 162 | Number of linear feet of files (54 shelves x 3 ln/ft) |
| 583,200 | Number of Images (162 ln/ft x 1,800 pages x 2 for double-sided) |
| 145,800 | Number of Incident Reports (583,000/4 pages each) |
| 145,800 | Index at the Permit Level by Street Address, Date and Incident Number |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 583,200 | LF1 | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 56,465.42 |
| 145,800 | LF13 | Indexing (data entry) up to 30 characters per Folder | $ 0.21630 | $ 31,536.54 |
| 583,200 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 6,006.96 |
| 120 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 15,450.00 |
| 8 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,030.00 |
| 24 | LF17-Pack | Hourly rate for packing boxes and additional clerical/doc preparation | $ 26.78 | $ 642.72 |
| 2.0 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 1,133.00 |
| | | **Fire Department -Incident Reports** | | **$ 112,264.64** |

## Fire Department -Personnel Files

| | |
|---|---|
| 9 | Number of Shelves (3 ln/ft) |
| 27 | Number of linear feet of files (9 shelves x 3 ln/ft) |
| 225 | Number of Personnel Files (9 shelves x 25 files per shelve) |
| 54,000 | Number of Images (27 ln/ft x 2,000 pages) |
| 225 | Index at the File Level by Name (Last, First) |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 54,000 | LF1 | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 5,228.28 |
| 225 | LF13-Name | Indexing (data entry) up to 20 characters per file (Name, L,F) | $ 0.14420 | $ 32.45 |
| 54,000 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 556.20 |
| 4 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| 4 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| 2 | LF17-Pack | Hourly rate for additional clerical/doc preparation | $ 26.78 | $ 53.56 |
| 1.0 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 566.50 |
| | | **Fire Department -Personnel Files** | | **$ 7,466.99** |

**Fire Department -Deputy Reports and Special Notes and Miscellaneous**

| | |
|---|---|
| 175 | Number of Binders (135) and Volumes (40) |
| 87,500 | Number of Images (175 binders/volumes x 500 pages) |
| 175 | Index at the Binder/Volume File Level by Text on Binding |
| 5 | Tank Registration, General Chemical, High School - Drawers |
| 17,500 | Number of Pages (3,500 pages per drawer) |
| 4,375 | Number of Documents to be Index at the File Level by Tab info (4 pages per) |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 105,000 | LF1 | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 10,166.10 |
| 4,550 | LF13 | Indexing (data entry) up to 20 characters per file (Name, L,F) | $ 0.14420 | $ 656.11 |
| 105,000 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 1,081.50 |
| 8 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,030.00 |
| 4 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| 2 | LF17-Pack | Hourly rate for additional clerical/doc preparation | $ 26.78 | $ 53.56 |
| 0.5 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 283.25 |
| | | **Fire Department -Deputy Reports and Special Notes and Miscellaneous** | | **$ 13,785.52** |

**Fire Department - Financial Summary**

| | |
|---|---|
| Fire Department -Commercial Property Files | $ 77,001.56 |
| Fire Department - Residential Permits | $ 17,242.20 |
| Fire Department -Incident Reports | $ 112,264.64 |
| Fire Department -Personnel Files | $ 7,466.99 |
| Fire Department -Deputy Reports and Special Notes and Miscellaneous | $ 13,785.52 |
| **Fire Department Total** | **$ 227,760.91** |

| | | |
|---|---|---|
| | | **Human Resources Department -Personnel Files - Active** |
| 5 | | Number of file cabinets (4 drawers 24" each) |
| 40 | | Number of linear feet of files (5 cab x 4 drawers x 2 ln/ft) |
| 2,250 | | Number of files ( 1,500 personnel files + 750 medical) |
| 79,200 | | Number of Small Document Images (40 ln/ft x 1,800 pages)+ 10% double-sided |
| 79,200 | | Total Number of Images for Upload |
| 2,250 | | Index at the File Level by Name (Last, First, Middle) |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 79,200 | LF1 | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 7,668.14 |
| 2,250 | LF13-Name | Indexing (data entry) up to 20 characters per File (Name, L,F,M) | $ 0.14420 | $ 324.45 |
| 79,200 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 815.76 |
| 6 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 772.50 |
| 4 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| 2 | LF17-Pack | Hourly rate for packing boxes and additional clerical/doc preparation | $ 26.78 | $ 53.56 |
| 1.0 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 566.50 |
| | | **Human Resources Department -Personnel Files - Active** | | **$ 10,715.91** |

| | | |
|---|---|---|
| | | **Human Resources Department - Benefit files** |
| 38 | | Number of file cabinet drawers (24") |
| 76 | | Number of linear feet of files (38 drawers x 2 ln/ft) |
| 6,000 | | Number of files |
| 150,480 | | Number of Small Document Images (76 ln/ft x 1,800 pages)+ 10% double-sided |
| 150,480 | | Total Number of Images for Upload |
| 6,000 | | Index at the File Level by Name (Last, First, Middle) |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 150,480 | LF1 | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 14,569.47 |
| 6,000 | LF13-Name | Indexing (data entry) up to 20 characters per File (Name, L,F,M) | $ 0.14420 | $ 865.20 |
| 150,480 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 1,549.94 |
| 10 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,287.50 |
| 4 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| 4 | LF17-Pack | Hourly rate for packing boxes and additional clerical/doc preparation | $ 26.78 | $ 107.12 |
| 1.0 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 566.50 |
| | | **Human Resources Department - Benefit files** | | **$ 19,460.74** |

## Human Resources Department - Terminated Personnel files

| | |
|---|---|
| 11 | Number of file cabinet drawers (36") |
| 33 | Number of linear feet of files (38 drawers x 2 ln/ft) |
| 1,100 | Number of files (11 drawers x 100 files) |
| 65,340 | Number of Small Document Images (33 ln/ft x 1,800 pages)+ 10% double-sided |
| 65,340 | Total Number of Images for Upload |
| 1,100 | Index at the File Level by Name (Last, First, Middle) |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 65,340 | LF1 | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 6,326.22 |
| 1,100 | LF13-Name | Indexing (data entry) up to 20 characters per File (Name, L,F,M) | $ 0.14420 | $ 158.62 |
| 65,340 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 673.00 |
| 6 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 772.50 |
| 4 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| 3 | LF17-Pack | Hourly rate for packing boxes and additional clerical/doc preparation | $ 26.78 | $ 80.34 |
| 0.5 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 283.25 |
| | | **Human Resources Department - Terminated Personnel files** | | **$ 8,808.93** |

## HR Department - Temp and Terminated Benefit files

| | |
|---|---|
| 3 | Number of file cabinet drawers (36") |
| 9 | Number of linear feet of files (3 drawers x 3 ln/ft) |
| 750 | Number of files (3 drawers x 250 files) |
| 17,820 | Number of Small Document Images (9 ln/ft x 1,800 pages)+ 10% double-sided |
| 17,820 | Total Number of Images for Upload |
| 750 | Index at the File Level by Name (Last, First, Middle) |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 17,820 | LF1 | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 1,725.33 |
| 750 | LF13-Name | Indexing (data entry) up to 20 characters per File (Name, L,F,M) | $ 0.14420 | $ 108.15 |
| 17,820 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 183.55 |
| 2 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 257.50 |
| 2 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 257.50 |
| 0.5 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 283.25 |
| | | **HR Department - Temp and Terminated Benefit files** | | **$ 2,815.28** |

## Human Resources - Financial Summary

| | |
|---|---|
| Human Resources Department -Personnel Files - Active | $ 10,715.91 |
| Human Resources Department - Benefit files | $ 19,460.74 |
| Human Resources Department - Terminated Personnel files | $ 8,808.93 |
| HR Department - Temp and Terminated Benefit files | $ 2,815.28 |
| **Human Resources Total** | **$ 41,800.86** |

## Dept. of Public Works - #5,6 - Plan Review files

| | |
|---|---|
| 8 | Number of lateral file drawers |
| 600 | Number of files (8 drawers x 75 files) |
| 36,000 | Number of Small Document Images (8 drawers x 4,500 pages) |
| 800 | Number of Large Documents (over 11x17) (8 drawers x 100 dwgs) |
| 36,800 | Total Number of Images for Upload (36,000 + 800) |
| 600 | Index at the File Level by Folder Tab Info |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 36,000 | LF1 | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 3,485.52 |
| 800 | LF3 | Scan Large Format - Folded (over 11"x 17" - up to 36"x48") at 300 dpi into B&W or Color, includes QC | $ 1.28750 | $ 1,030.00 |
| 600 | LF13 | Indexing (data entry) up to 30 characters per Folder | $ 0.21630 | $ 129.78 |
| 36,800 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 379.04 |
| 8 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,030.00 |
| 4 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| 4 | LF17-Pack | Hourly rate for packing boxes and additional clerical/doc preparation | $ 26.78 | $ 107.12 |
| 0.3 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 169.95 |
| | | **Dept. of Public Works - #5,6 - Plan Review files** | | **$ 6,846.41** |

## Dept. of Public Works - #11,12,13 -Planning Board files

| | |
|---|---|
| 9 | Number of file drawers |
| 675 | Number of files (9 drawers x 75 files) |
| 18,000 | Number of Small Document Images (9 drawers x 2,000 pages) |
| 3,600 | Number of Large Documents (over 11x17) (9 drawers x 400 dwgs) |
| 21,600 | Total Number of Images for Upload (40,500 + 3,600) |
| 675 | Index at the File Level by Folder Tab Info |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 18,000 | LF1 | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 1,742.76 |
| 3,600 | LF3 | Scan Large Format - Folded (over 11"x 17" - up to 36"x48") at 300 dpi into B&W or Color, includes QC | $ 1.28750 | $ 4,635.00 |
| 675 | LF13 | Indexing (data entry) up to 30 characters per Folder | $ 0.21630 | $ 146.00 |
| 21,600 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 222.48 |
| 8 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,030.00 |
| 4 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| 4 | LF17-Pack | Hourly rate for packing boxes and additional clerical/doc preparation | $ 26.78 | $ 107.12 |
| 0.3 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 169.95 |
| | | **Dept. of Public Works - #11,12,13 -Planning Board files** | | **$ 8,568.31** |

**Dept. of Public Works - #18,21,44,45 -Traffic, Project and Old Drawings**

| | |
|---|---|
| 7 | Number of file drawers |
| 525 | Number of files (7 drawers x 75 files) |
| 14,000 | Number of Small Document Images (7 drawers x 2,000 pages) |
| 2,800 | Number of Large Documents (over 11x17) (7 drawers x 400 dwgs) |
| 16,800 | Total Number of Images for Upload (14,000 + 2,800) |
| 525 | Index at the File Level by Folder Tab Info |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 14,000 | LF1 | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 1,355.48 |
| 2,800 | LF3 | Scan Large Format - Folded (over 11"x 17" - up to 36"x48") at 300 dpi into B&W or Color, includes QC | $ 1.28750 | $ 3,605.00 |
| 525 | LF13 | Indexing (data entry) up to 30 characters per Folder | $ 0.21630 | $ 113.56 |
| 16,800 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 173.04 |
| 8 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,030.00 |
| 4 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| 4 | LF17-Pack | Hourly rate for packing boxes and additional clerical/doc preparation | $ 26.78 | $ 107.12 |
| 0.3 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 169.95 |
| | | **Dept. of Public Works - #18,21,44,45 -Traffic, Project and Old Drawings** | | **$ 7,069.15** |

**Dept. of Public Works - #47 - Sub-Divisions**

| | |
|---|---|
| 4 | Number of file drawers |
| 300 | Number of files (4 drawers x 75 files) |
| 12,000 | Number of Small Document Images (4 drawers x 3,000 pages) |
| 1,600 | Number of Large Documents (over 11x17) (4 drawers x 400 dwgs) |
| 13,600 | Total Number of Images for Upload (12,000 + 1,600) |
| 300 | Index at the File Level by Folder Tab Info |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 12,000 | LF1 | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 1,161.84 |
| 1,600 | LF3 | Scan Large Format - Folded (over 11"x 17" - up to 36"x48") at 300 dpi into B&W or Color, includes QC | $ 1.28750 | $ 2,060.00 |
| 300 | LF13 | Indexing (data entry) up to 30 characters per Folder | $ 0.21630 | $ 64.89 |
| 13,600 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 140.08 |
| 8 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,030.00 |
| 4 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| 4 | LF17-Pack | Hourly rate for packing boxes and additional clerical/doc preparation | $ 26.78 | $ 107.12 |
| 0.3 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 169.95 |
| | | **Dept. of Public Works - #47 - Sub-Divisions** | | **$ 5,248.88** |

**Dept. of Public Works - #? - Accepted streets**

| | |
|---|---|
| 12 | Number of file drawers |
| 900 | Number of  files (7 drawers x 75 files) |
| 18,000 | Number of Small Document Images (12 drawers x 1,500 pages) |
| 600 | Number of Large Documents (over 11x17) (12 drawers x 50 dwgs) |
| 18,600 | Total Number of Images for Upload (14,000 + 2,800) |
| 900 | Index at the File Level by Folder Tab Info |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 18,000 | LF1 | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 1,742.76 |
| 600 | LF3 | Scan Large Format - Folded (over 11"x 17" - up to 36"x48") at 300 dpi into B&W or Color, includes QC | $ 1.28750 | $ 772.50 |
| 900 | LF13 | Indexing (data entry) up to 30 characters per Folder | $ 0.21630 | $ 194.67 |
| 18,600 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 191.58 |
| 4 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| 4 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| 4 | LF17-Pack | Hourly rate for packing boxes and additional clerical/doc preparation | $ 26.78 | $ 107.12 |
| 0.3 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 169.95 |
| | | **Dept. of Public Works - #? - Accepted streets** | | **$ 4,208.58** |

**Dept. of Public Works -#33,34, 35,36- Card Files A-Z and Accepted**

| | |
|---|---|
| 15 | Number of Drawers |
| 60,000 | Number of Cards (4,000 cards per drawer) (single-sided) |
| 60,000 | Number of Images |
| 60,000 | Index at the Card Level by Street, MLB#'s (up to 50 characters) |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 60,000 | LF1-DS-Cards | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 5,809.20 |
| 60,000 | LF14 | Indexing (data entry) up to 50 characters per Card | $ 0.36050 | $ 21,630.00 |
| 60,000 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 618.00 |
| 54 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 6,952.50 |
| 12 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,545.00 |
| 4 | LF17-Pack | Hourly rate for additional clerical/doc preparation | $ 26.78 | $ 107.12 |
| 0.5 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 283.25 |
| | | **Dept. of Public Works -#33,34, 35,36- Card Files A-Z and Accepted** | | **$ 36,945.07** |

**Dept. of Public Works - #10,37,38 - Assessor and Maps**

| | |
|---|---|
| 40 | Number of lateral file drawers |
| 3,000 | Number of files (40 drawers x 75 files) |
| 3,000 | Number of Large Documents (over 11x17) (40 drawers x 75 dwgs) |
| 3,000 | Total Number of Images for Upload (36,000 + 800) |
| 3,000 | Index at the Drawing Level (up to 30 characters |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 3,000 | LF3 | Scan Large Format - Folded (over 11"x 17" - up to 36"x48") at 300 dpi into B&W or Color, includes QC | $ 1.28750 | $ 3,862.50 |
| 3,000 | LF13 | Indexing (data entry) up to 30 characters per drawing | $ 0.21630 | $ 648.90 |
| 3,000 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 30.90 |
| 8 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,030.00 |
| 4 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| 4 | LF17-Pack | Hourly rate for packing boxes and additional clerical/doc preparation | $ 26.78 | $ 107.12 |
| 0.3 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 169.95 |
| | | **Dept. of Public Works - #10,37,38 - Assessor and Maps** | | **$ 6,364.37** |

**Dept. of Public Works - Henry Street - Facility, Parking Plans, Town Roads, School Bldg, Misc (3,000 drawings each)**

| | |
|---|---|
| 15,000 | Number of Large Documents (over 11x17) (40 drawers x 75 dwgs) |
| 15,000 | Total Number of Images for Upload (36,000 + 800) |
| 15,000 | Index at the Drawing Level (up to 50 characters) |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 15,000 | LF2 | Scan Large Format - Rolled or Flat (over 11"x 17" - up to 36"x48") at 300 dpi into B&W or Color, includes QC | $ 1.08253 | $ 16,237.95 |
| 15,000 | LF14 | Indexing (data entry) up to 50 characters per Drawing | $ 0.36050 | $ 5,407.50 |
| 15,000 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 154.50 |
| 24 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 3,090.00 |
| 8 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,030.00 |
| 4 | LF17-Pack | Hourly rate for packing boxes and additional clerical/doc preparation | $ 26.78 | $ 107.12 |
| 0.3 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 169.95 |
| | | **Dept. of Public Works - Henry Street - Facility, Parking Plans, Town Roads, School Bldg, Misc (3,000 drawings each)** | | **$ 26,197.02** |

**Dept. of Public Works - Henry Street - Parking Plan Boxes**

| | |
|---|---|
| 30 | Number of Boxes (24") |
| 2,250 | Number of files (30 boxes x 75 files) |
| 135,000 | Number of Small Document Images (30 drawers x 4,500 pages) |
| 3,000 | Number of Large Documents (over 11x17) (30 drawers x 100 dwgs) |
| 138,000 | Total Number of Images for Upload (135,000 + 3,000) |
| 2,250 | Index at the File Level by Folder Tab Info |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 135,000 | LF1 | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 13,070.70 |
| 3,000 | LF3 | Scan Large Format - Folded (over 11"x 17" - up to 36"x48") at 300 dpi into B&W or Color, includes QC | $ 1.28750 | $ 3,862.50 |
| 2,250 | LF13 | Indexing (data entry) up to 30 characters per Folder | $ 0.21630 | $ 486.68 |
| 138,000 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 1,421.40 |
| 12 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,545.00 |
| 8 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,030.00 |
| 0.3 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 169.95 |
| | | **Dept. of Public Works - Henry Street - Parking Plan Boxes** | | **$ 21,586.23** |

**Dept. of Public Works - Financial Summary**

| | |
|---|---|
| Dept. of Public Works - #5,6 - Plan Review files | $ 6,846.41 |
| Dept. of Public Works - #11,12,13 -Planning Board files | $ 8,568.31 |
| Dept. of Public Works - #18,21,44,45 -Traffic, Project and Old Drawings | $ 7,069.15 |
| Dept. of Public Works - #47 - Sub-Divisions | $ 5,248.88 |
| Dept. of Public Works - #? - Accepted streets | $ 4,208.58 |
| Dept. of Public Works -#33,34, 35,36- Card Files A-Z and Accepted | $ 36,945.07 |
| Dept. of Public Works - #10,37,38 - Assessor and Maps | $ 6,364.37 |
| Dept. of Public Works - Henry Street - Facility, Parking Plans, Town Roads, School Bldg, Misc (3,000 drawings each) | $ 26,197.02 |
| | $ 21,586.23 |
| **Dept. of Public Works Total** | **$ 123,034.02** |

**Veterans Department - Old Bound Book and Loose Pages**

| | |
|---|---|
| 1 | Number of Books (150 pages) |
| 650 | Number of Small Document Images (150 pages from Book and 500 loose) |
| 650 | Total Number of Images for Upload |
| | Index at the Book Level and No indexing of the loose pages |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 150 | LF5 | Scan Bound Book Pages (up to 11"x17") (single-sided pages) | $ 0.64478 | $ 96.72 |
| 500 | LF30 | Scan Loose Pages - Flatbed Scanning | $ 0.64478 | $ 322.39 |
| 2 | LF13-Name | Indexing (data entry) up to 20 characters per File (Name, L,F,M) | $ 0.14420 | $ 0.29 |
| 650 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 6.70 |
| 4 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| | | **Veterans Department - Old Bound Book and Loose Pages** | | **$ 941.09** |

**Total Estimated LaserFiche Services Quotation**

| | |
|---|---|
| Police Department - Financial Summary | $ 165,258.66 |
| Fire Department - Financial Summary | $ 227,760.91 |
| Human Resources - Financial Summary | $ 41,800.86 |
| Dept. of Public Works - Financial Summary | $ 123,034.02 |
| Veterans Department - Financial Summary | $941.09 |
| **Total Estimated LaserFiche Services Quotation** | **$ 558,795.54** |

# FY2019 Recommended: Bond $116,580

| | | | |
|---|---|---|---|
| **Project Number:** | TOWNCLERK/TownClerk/2019/A | **Budget Year:** | 2019 |
| **Project Title:** | Voting Machines | **Scenario:** | Main 2019 |
| **Asset Type:** | VOTING MACHINES | **Budget Status:** | Department Request |
| **Department:** | 60-161 - Town Clerk | **Regions:** | |
| **Project Type:** | Other Non-Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

20 Voting Machines - Includes hardware, election reporting software and hardware

## Comments:

Project originally requested and recommended in the FY2018 capital budget - voted down by town meeting

## Justification:

**Purchase Price**
The Town Clerk purchased 20 Accu Vote machines from LHS Associates Inc. in July 2006 at $6500 each for a total of $130,000.

**Maintenance**
We have had maintenance contracts with LHS since July 25, 2006. From FY07 – FY10 the annual fee was $3500. From FY12 – FY17 the annual fee was $4000. The current fee is $4500.

**Expected Useful Life and Replacement Schedule**
The Accu Vote machines have an expected useful life of 10-20 years depending on care, average usage and voter turnout. Manufacturing of the Accu Vote machines stopped in 2007 and parts are becoming more difficult to locate, LHS estimates that they will be able to maintain support through 2020. Because 2020 is a Presidential Election year with an average voter turnout of 75% (30,000+ voters) I have requested 20 new voting machines in the FY19 Capital Budget.

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 116,580 | 0 | 116,580 |
| | **116,580** | **0** | **116,580** |

City of Framingham, Massachusetts

**Purchase Proposal Quote**

Submitted by LHS Associates, Inc.

October 27, 2017

| Quantity | Description | Price |
|---|---|---|
| | **HARDWARE** | |
| | **ICP Tabulator Bundle includes:** | |
| 20 | ✓ One (1) Tabulator with a padded carrying case, two (2) memory cards, one (1) power cord, one (1) key set, two (2) thermal paper rolls, one (1) dozen marking pens, six (6) security seals and an internal battery back up.<br>✓ One (1) plastic ballot box with three (3) compartments, casters and a built in power supply. Ballot boxes are able to nest for ease of storage. | $114,000.00 |
| | **ELECTION REPORTING SOFTWARE & HARDWARE** | |
| | **Results, Tally & Reporting (RTR) Software & Hardware Package** | |
| 1 | ✓ One (1) initial license for DemSuite RTR.<br>✓ One (1) laptop, One (1) laptop bag and all necessary documentation. | $7,800.00 |
| | **SERVICES** | |
| | **Two Year Hardware & Software Warranty:** | Included |
| | ✓ All parts, labor, travel and shipping costs included.<br>✓ Unlimited access to the LHS Help Desk for Pre-Election, Election Day and Post Election questions.<br>✓ An annual maintenance visit to the City of Framingham to inspect, calibrate and service all euipment.<br>✓ Any necessary repairs will take place in the City of Framingham. If onsite repair is not possible loaner equipment will be left in the customer's possession until all equipment can be repaired and returned.<br>✓ An employee of LHS, not a subcontractor, will conduct all maintenance work.<br>✓ A locally based service center with parts and technicians trained in repairing and servicing voting equipment. | |
| | **Documentation, including but not limited to:** | Included |
| | ✓ One (1) Pre Election Testing Guide, Twenty (20) Poll Worker Training Guides, One (1) Voter Tutorial Video and One (1) Instructions to Voter Poster. | |
| | **Two Training sessions exclusively for the City of Framingham.** | Included |
| | ✓ Two hours of training for the City Clerk and office staff. This training will cover basic use of the machine, pre-election testing and Election Day procedures.<br>✓ Two hours of training for Poll Workers. This training will cover Election day procedures and basic trouble shooing.<br>✓ Both trainings will be conducted in the City of Framingham and scheduled by the City Clerk. | |
| | **Onsite coverage by an employee of LHS for the first election.** | Included |
| | ✓ A member of the LHS team will work with the City Clerk from one (1) hour prior to opening the polls until two (2) hours after the polls close on Election Day.<br>✓ The representative will NOT be a subcontracted employee from another company. | |
| | **Onsite acceptance testing of all equipment.** | Included |
| | **SHIPPING & DISCOUNTS** | |
| | **Shipping & Handling** | Included |
| | **Tabulator Trade-In Credit** | -$10,000.00 |
| | **TOTAL PURCHASE** | **$111,800.00** |

| | | |
|---|---|---|
| | **POST WARRANTY FEES** | |
| 20 | Annual Post Warranty Maintenance Fee<br>✓ LHS Top Tier Coverage (Annual Maintenance Plan) | $4,000.00 |
| 1 | Annual RTR Software License<br>✓ RTR Software License Fee | $780.00 |
| | **TOTAL POST WARRANTY FEES** | **$4,780.00** |

- This quote is an estimate and is subject to final approval by LHS and the Customer
- Rate valid for 90 days and thereafter may change
- This quote does not include coding or ballot printing charges

10 Manor Parkway Unit B Salem, NH 03079
Toll Free: 888-547-8683 Fax: 603-212-0028 www.lhsassociates.com

October 27, 2017

Ms. Valerie Mulvey
City Clerk
City of Framingham
150 Concord Street, Room 105
Framingham, MA 01702
508-532-5520

Ms. Mulvey,
Thank you for allowing LHS Associates, Inc. the opportunity to provide you with a quote for new Electronic Vote Tabulators. I am pleased to present the following quote for the purchase of:

**Twenty (20) ImageCast Precinct Bundles**
**and Election Night Reporting Software & Hardware**

If you have any further questions please contact me directly.

Sincerely,

Paul Balukonis
Customer Relations Manager
LHS Associates, Inc.

# FY2019 Recommended: Free Cash $900,000

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Highway/2019/G | **Budget Year:** | 2019 |
| **Project Title:** | Beaver Street Bridge Replacement – Design and Construction | **Scenario:** | Main 2019 |
| **Asset Type:** | BRIDGES - OVER WATER OR LAND | **Budget Status:** | Department Request |
| **Department:** | C4-411 - Engineering | **Regions:** | |
| **Project Type:** | Roadway Infrastructure | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

The existing roadway bridge and sidewalks over Beaver Dam Brook will be replaced, including railings and utilities, completing other recent rehabilitation and improvements to this roadway corridor.

## Comments:

The Town has a separate state grant for the upstream Beaver Dam Brook Stream Restoration Project, which is adjacent to Mary Dennison Park, and which is awaiting resolution of contamination issues at the Park. While there is no plan to combine the two projects, largely due to their separate and different permitting, funding and construction types, the two projects will be coordinated to ensure efficiencies where possible and to avoid negatively impacting each other.

## Justification:

The existing bridge was originally built in 1922, repaired in 1951, and is in poor enough condition that it has a posted weight limit that inhibits full truck usage on this Urban Minor Arterial roadway. A majority of the cost will be paid from an approved state Small Bridge grant.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 900,000 | 0 | 900,000 |
| | **900,000** | **0** | **900,000** |

**GPI** **Greenman - Pedersen, Inc.**

Engineering and Construction Services

Ref. MAX-2015047.08

November 2, 2017
Mr. Eric V. Johnson, P.E.
Town Engineer
Framingham Department of Public Works
110 Western Avenue
Framingham, MA 01702

Attn: Mr. Matthew Hayes, P.E., Senior Project Manager - Transportation

SUBJECT: Task Order No. 8
Beaver Street over Beaver Dam Brook

Dear Mr. Johnson:

As requested, ***Greenman-Pedersen, Inc., (GPI)*** has prepared this letter to provide a description and cost estimate for the design, construction, and construction oversight of the Beaver Street Bridge over Beaver Dam Brook.

The bridge is a reinforced concrete slab on stacked stone abutments that was constructed in 1922. In 1951, a strut system was installed in the channel under the bridge. The strut system is presumed to have been installed to prevent the abutments from migrating further into the channel. This strut system is currently exhibiting heavy section loss and its continued ability to provide lateral support to the abutments is suspect. The bridge also had a weight restriction based on the capacity of the bridge slab. Due to deterioration and structural concerns, the bridge is slated for replacement.

Complete replacement of the bridge structure was determined to be necessary based on the condition of the existing structure. The new structure is proposed to be a precast concrete box culvert. As part of the project, roadway work, utility bypassing and replacement, and localized stream restoration will be required.

GPI has estimated the design, construction and construction oversight costs to be approximately $1,400,000.00. A $500,000 MassDOT Small Bridge Funding Grant has been awarded to the Town to aid in funding this Project. GPI recommends an additional $900,000 be provided in FY2019 to fund the balance of this project.

We hope that the above is sufficient for your use. Should you have any questions, please do not hesitate to contact me at 978-570-2940.

Sincerely,

**GREENMAN – PEDERSEN, INC.**

Kimberly E Armstrong PE

Kimberly Armstrong, PE
Project Manager

181 Ballardvale Street, Suite 202, Wilmington, MA 01887 Tel: (978) 570-2999 Fax: (978) 658-3044
www.gpinet.com

*An Equal Opportunity Employer*

# FY2019 Recommended: Free Cash $310,000

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Highway/2019/H | **Budget Year:** | 2019 |
| **Project Title:** | Edgell Road Culvert Rehabilitation – Design and Construction | **Scenario:** | Main 2019 |
| **Asset Type:** | OTHER STREET IMPROVEMENTS | **Budget Status:** | Department Request |
| **Department:** | C4-411 - Engineering | **Regions:** | |
| **Project Type:** | Roadway Infrastructure | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

The culvert carrying Landham Brook under Edgell Road, which is a couple hundred feet north of Edmands Road and Water Street, is in major disrepair. It is a skewed 6 feet wide by 3.5 feet tall by 100 feet long cast-in-place concrete box, with about 1 foot thickness, and about 1 foot of typical water depth. Rehab will include injection of grout at the upper corners of the culvert box, shallow and deep patching of the roof and wingwalls, full-depth concrete replacement of the west end roof, a new curb, and erosion protection. It is not anticipated that reinforcement needs to be replaced or added.

## Comments:

This is near to, and related to recent and anticipated Nobscot redevelopment and intersection improvements.

## Justification:

There is significant concrete deterioration, with exposed rebar and rust on the culvert roof (and underside of the roadway), and widespread spalling and delamination at the wingwalls that cover up to 75% of the exposed surface areas. Proactive rehabilitation will be less costly and less disruptive than replacement, particularly if that work was needed during or following an emergency (including failure).

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 310,000 | 0 | 310,000 |
| | **310,000** | **0** | **310,000** |

November 2, 2017

Ref: 13960.00

Eric V. Johnson, P.E.
Town Engineer
Framingham Dept of Public Works
110 Western Avenue
Framingham, MA 01702

Re: FY-2019 Capital Improvements
Edgell Rd Culvert Rehabilitation

Dear Mr. Johnson,

The culvert conveying Landham Brook under Edgell Road is located approximate 600 feet north of the Edgell Road at Edmands Rd/Water St intersection and is need of repair. The culvert is a skewed 6 feet wide by 4.5 feet tall by 75 feet long cast-in-place concrete box, with about 1 foot thickness, and about 1 foot of typical water depth. The proposed rehabilitation will include shallow and deep patching of the roof and wingwalls including the addition of steel reinforcement, full-depth concrete replacement of the west end headwall and roof slab including replacement of corroded steel reinforcement, new granite curb, new guardrail, additional closed drainage, and loam & seed for restoration.

There is significant concrete deterioration, with exposed rebar and rust on the culvert roof (and underside of the roadway), and widespread spalling and delamination at the wingwalls that cover up to 75% of the exposed surface areas due to the stormwater runoff directly from Edgell Road. Proactive rehabilitation will be less costly and less disruptive than replacement, particularly if that work was needed during or following an emergency (including failure).

The total costs associated with the design and construction of the Edgell Road over Landham Brook is estimated to be $310,000.

If you have any questions, or require additional information, please do not hesitate to contact me.

Sincerely,

Vanasse Hangen Brustlin, Inc.

Tracie Lenhardt

Tracie Lenhardt, P.E.

Senior Project Manager

Engineers | Scientists | Planners | Designers

101 Walnut Street
PO Box 9151
Watertown, Massachusetts 02471
P 617.924.1770
F 617.924.2286

# FY2019 Recommended: Free Cash $250,000

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Highway/2019/E | **Budget Year:** | 2019 |
| **Project Title:** | Annual Drainage System & Water Quality Improvements - 2019 | **Scenario:** | Main 2019 |
| **Asset Type:** | STORM DRAIN | **Budget Status:** | Department Request |
| **Department:** | C4-411 - Engineering | **Regions:** | |
| **Project Type:** | Stormwater Improvement | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

Annual Appropriation for DPW capital repairs to the stormwater conveyance system. Improvements include removal of debris and sedimentation restoration of channel bottoms. Includes repairs to side walls, banks and channel formed channel bases. Improvements will restore system capacity and mitigate flooding.

## Comments:

## Justification:

Necessary infrastructure improvements.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 250,000 | 0 | 250,000 |
| | **250,000** | **0** | **250,000** |

## Project Details 2019

| Object | Description | | Total Amount |
|---|---|---|---|
| **Expense** | | | |
| 34115006-58300 | Improvements | | 250,000 |
| | | **Total Expense:** | **250,000** |

# FY2019 Recommended: Bond $3,000,000

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Highway/2019/D | **Budget Year:** | 2019 |
| **Project Title:** | Annual Various Road Improvements - 2019 | **Scenario:** | Main 2019 |
| **Asset Type:** | STREETS & ROADS | **Budget Status:** | Department Request |
| **Department:** | C4-422 - Highway | **Regions:** | |
| **Project Type:** | Roadway Infrastructure | **Active:** | Yes |
| **Year Identified:** | 2016 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

The Annual Road Program utilizes several different maintenance applications to ensure the appropriate road condition.
Roadway Resurfacing includes mill and Hot Mix Asphalt (HMA) overlay, which is the process of grinding off the top layer of existing asphalt pavement by means of a large milling machine and replacing this layer with at least two layers of a new HMA riding surface. A leveling course may be applied prior to the final riding surface to resolve various roadway defects, ensure proper drainage, and provide adequate rideability throughout the duration of the project. Drainage improvements are made if needed before paving. Curbing is re-laid or replaced if they are in poor condition or reset for adequate reveal. Sidewalk reconstruction includes ADA handicap ramp upgrades. Signage and traffic marking are upgraded. Tentative roads scheduled for roadway resurfacing are Fenwick Street, Wickford Road, Sturgis Road, Normandy Road, Sanger Street, Thompson Street, William Welch Way and Speen Street.

The Department also utilizes several different Roadway Surface Treatment applications including:

Rubber chip seal is typically applied to neighborhood roads with low to moderate volume traffic volumes. The treatment is used to provide a flexible, waterproof wearing surface that seals the existing pavement and is highly resistant to cracking. Installation includes a HMA shim course to redefine the profile of the road, provide structural stability, and improve rideability. All utility castings are raised to finish grade, driveway aprons are adjusted as needed, and a rubber chip seal topcoat is applied. Signage and traffic markings are upgraded. The annual road program is scheduled to include: Ridgefield Drive, Leonard Road, Lohnes Road, Blackthorn Road, Bantry Road, Rosslare Road, Tara Road, Poskus Road, Hastings Street, Sunset Drive, Pitt Road, Cavanaugh Road, Fairbanks Road, Fairbanks Way, Highland Court, Murray Road, Magnolia Street, Michaud Drive, Childs Circle, Woodside Cottage Way, Gil Leonard Road, Wyndstone Way, Highgate Road, and Crestwood Drive.

Rubber chip seal can also be used in conjunction with other roadway treatments as a Stress Absorbing Membrane Interlayer (SAMI). The SAMI seals the roadway and extends its service life. Bonded Wearing Course (or Novachip) can be applied after a SAMI and includes a thin layer of a polymer modified asphalt emulsion sprayed onto the road surface followed immediately by an overlay of HMA. Castings are raised to grade and traffic markings are restored. Tentative roads scheduled for this surface treatment application are Salem End Road (partial), Parmentor Road, and Nixon Road.

Mill and fill operations are also performed by the Department in conjunction with specialized contracted equipment to address surface defects. Mill and fill can be used as a stand-alone roadway maintenance method or can be used in preparation for surface treatment products.

## Justification:

Without substantial ongoing improvements, the roadway system will deteriorate rapidly, and cost more to raise back up to a State of Good Repair.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 7,500,000 | 0 | 7,500,000 |
| | **7,500,000** | **0** | **7,500,000** |

# FY2019 Recommended: Bond $810,000

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Highway/2019/F | **Budget Year:** | 2019 |
| **Project Title:** | Salem End Road Bridge Rehab - Construction | **Scenario:** | Main 2019 |
| **Asset Type:** | BRIDGES - OVER WATER OR LAND | **Budget Status:** | Department Request |
| **Department:** | C4-422 - Highway | **Regions:** | |
| **Project Type:** | Roadway Infrastructure | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This Urban Collector roadway bridge will be repaired, as will the sidewalks (that are now closed), water, sewer force main, gas pipes and telephone conduit.

## Comments:

A September 2017 letter from the state underscores known deficiencies and urgency for permanent repairs, with the potential that continuing deterioration will result in load restrictions and/or closure in coming years.

## Justification:

This project was deferred from the FY2018 request. The existing 30-foot span bridge was constructed over the Stearns Reservoir in 1870, and the superstructure was reconstructed in 1927, and is now in a very deteriorated condition. Interim repairs were performed in June 2017 (fill holes in the deck), and in September 2017 the state directed Framingham to correct numerous deficiencies with temporary measures (fences and barriers) and permanent repairs. New floor beams, sidewalk, bridge rail and guardrail will be provided, with some additional concrete repairs performed, and the existing water line will receive new insulation. This work will extend the existing bridge life, and the need for major or total reconstruction that will be much more costly and disruptive.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 810,000 | 0 | 810,000 |
| | **810,000** | **0** | **810,000** |

GREEN INTERNATIONAL AFFILIATES, INC.
239 LITTLETON ROAD, SUITE 3 WESTFORD, MA 01886
TEL: (978) 923-0400 FAX: (978) 399-0033

November 16, 2016

Mr. Eric V. Johnson, P.E.
Town Engineer / Director of Municipal Engineering
Town of Framingham Department of Public Works
110 Western Avenue
Framingham, MA 01702

**Subject: FY-2018 Capital Improvements**
**Salem End Road Bridge Rehabilitation**
**Construction Cost**

Mr. Johnson:

The purpose of this letter is to provide a brief project description, need, and the estimated design and construction cost to perform the rehabilitation of the Salem End Road Bridge.

Bridge No. F-07-002 (244), carries Salem End Road over Stearns Reservoir in Framingham, Massachusetts. The bridge is located 0.75 miles southeast of Route 9. The 31'-6" single-span bridge was originally constructed circa 1870 and reconstructed in 1927. The structural integrity of the superstructure has been affected by deicing chemicals and a high level of moisture and is expected to continue to worsen.

Condition evaluation and analysis of key elements of the bridge's superstructure shows that the current superstructure can be retained for current use with some rehabilitation. To delay the deterioration of the concrete, it is recommended that the deficiencies found be repaired as recommended in the *Structure Evaluation Report* dated 4/26/16. Repairing the structure as indicated above is anticipated to extend its life up to 25 years.

The total cost associated with the construction cost for rehabilitation of the Salem End Road Bridge project is estimated to be approximately $600,000. To account for police details, construction contingency, design and other project related costs, Green recommends a FY 18 ATM appropriation of $870,000 for this project.

Should you have any questions, please do not hesitate to contact me, Wing Wong, P.E., PTOE, or Michael Cruz, P.E.

Very Truly Yours,

***Green International Affiliates, Inc.***

Phillip Kendall, P.E.
Transportation Department Manager

Ww/wcw

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GREEN INTERNATIONAL AFFILIATES, INC.
239 LITTLETON ROAD, SUITE 3 WESTFORD, MA 01886
TEL: (978) 923-0400 FAX: (978) 399-0033

November 3, 2017

Mr. Matthew J Hayes, P.E., ENV SP
Senior Project Manager – Transportation
Town of Framingham Department of Public Works
110 Western Avenue
Framingham, MA 01702

**Subject: FY-2019 Capital Improvements**
**Salem End Road Bridge Rehabilitation**
**Funding Request Letter**

Mr. Hayes:

The purpose of this letter is to provide a brief project description, need, and the estimated design and construction cost to perform the rehabilitation of the Salem End Road Bridge.

Bridge No. F-07-002 (244), carries Salem End Road over Stearns Reservoir in Framingham, Massachusetts. The bridge is located 0.75 miles southeast of Route 9. The 31'-6" single-span bridge was originally constructed circa 1870 and reconstructed in 1927. The structural integrity of the superstructure has been affected by deicing chemicals and a high level of moisture and is expected to continue to worsen. Due to significant deterioration of the concrete floor beams beneath the west sidewalk, the sidewalk has been closed, per the request of MassDOT in 2006. Interim repairs were constructed in June 2017 to repair holes within the gutter line along the face of the west sidewalk. In September 2017, the state directed Framingham to correct numerous deficiencies with temporary measures (fences and barriers) and permanent repairs. This project was deferred from the FY 2018 request.

Condition evaluation and analysis of key elements of the bridge's superstructure shows that the current superstructure can be retained for current use with some rehabilitation. To delay the deterioration of the concrete, it is recommended that the deficiencies found be repaired as recommended in the *Structure Evaluation Report* dated 4/26/16. Repairing the structure as indicated in the report is anticipated to extend its life up to 25 years.

This proposed rehabilitation will consist of new sidewalk slab on new concrete floor beams; replacing the existing sub-standard bridge railing; concrete repairs; and guardrail replacement. The existing utilities beneath the bridge will be maintained. The existing water line will receive new insulation.

The total cost associated with the construction cost for rehabilitation of the Salem End Road Bridge project is estimated to be approximately $600,000. To account for police details, construction contingency, design and other project related costs, Green recommends a FY 2019 appropriation of $810,000 for this project.

This letter confirms the need for $810,000 in funding for the Salem End Road Bridge Rehabilitation project.

Should you have any questions, please do not hesitate to contact me, Wing Wong, P.E., PTOE, or Michael Cruz, P.E.

Very Truly Yours,

***Green International Affiliates, Inc.***

Phillip Kendall, P.E.
Transportation Department Manager

WW/wcw

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# FY2019 Recommended: Free Cash $210,000

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Highway/2019/J | **Budget Year:** | 2019 |
| **Project Title:** | Fountain Street Roadway and Related Improvements – Final Design | **Scenario:** | Main 2019 |
| **Asset Type:** | STREETS & ROADS | **Budget Status:** | Department Request |
| **Department:** | C4-422 - Highway | **Regions:** | |
| **Project Type:** | Roadway Infrastructure | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This project phase will complete the design of new sidewalk, an improved intersection and permanent traffic signal at Dudley Road, as well as roadway rehabilitation, drainage improvements, and some remaining sewer lining, following the FY2018 water main replacement and initial sewer main and drain pipe lining. Roadway and related construction, including a funding request, is anticipated for FY2020.

## Comments:

This final design will be implemented in formal agreement with the Parks Department, Keefe Tech and adjacent property and business owners.

## Justification:

This corridor has conflicting and inadequate transportation modes, particularly for students, other pedestrians and the disabled to and from Keefe Tech and Loring Arena, as well as buried drainage, sewer and water pipes in need of repair or replacement, and high velocity and poor quality runoff into the southwest corner of Farm Pond. Results will include increased safety and mobility, improved water quality and other natural resources at Farm Pond, and a more attractive corridor.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 210,000 | 0 | 210,000 |
| | **210,000** | **0** | **210,000** |

**Stantec Consulting Services Inc.**
5 Burlington Woods Drive Suite 210, Burlington MA 01803-4511

November 6, 2017
File: 179410453

**Attention: Matthew J. Hayes. P.E.**
**Senior Project Manager – Transportation**

Department of Public Works
110 Western Avenue
Framingham, MA 01702

Dear Matt,

**Reference: Fountain Street Roadway Improvements – FY19 Funding Request**

Stantec has prepared this letter to summarize anticipated funding needs in FY2019 for final design associated with roadway improvements on Fountain Street. This phase of the project will complete the design of new sidewalks, improved intersection geometry/installation of permanent traffic signal at Dudley Road, roadway rehabilitation, streetscape enhancements, and drainage/stormwater improvements currently developed to the 60% design stage. This phase of the project will also include some remaining sewer lining to be completed following water main replacement and initial sewer main/drain pipe lining work that is ongoing in FY2018. Construction of these roadway improvements and related utility work, including a funding request, is anticipated for FY2020.

This corridor has conflicting and inadequate transportation modes, particularly for students, other pedestrians and the disabled traveling to/from Keefe Tech and Loring Arena within the corrdior, as well as buried drainage, sewer and water pipes in need of repair or replacement, and high velocity and poor quality runoff into the southwest corner of Farm Pond. Results of the completed project will include increased safety and mobility for al transportation modes, improved water quality and other natural resources at Farm Pond, and a more attractive corridor.

Town infrastructure assets addressed under this project include:

- Installation of permanent traffic signal
- 2,650 LF roadway rehabilitation
- 3,650 LF new sidewalk
- 1,500 LF new drain pipe and channel (an additional 1,600 LF lined in prior “Utilities” phase)
- 1,700 LF sewer main to be lined (2,400 LF lined in prior phase)
- (3,500 LF water main replaced in prior phase)

This letter confirms the need for $210,000 in funding for the Fountain Street Roadway Improvements project in FY2019.

**Reference: Fountain Street Roadway Improvements – FY19 Funding Request**

Regards,

**STANTEC CONSULTING SERVICES INC.**

Frederick A. Moseley, P.E.
Principal
Phone: 781-221-1131
frederick.moseley@stantec.com

# FY2019 Recommended: Bond $188,655

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Highway/2019/A | **Budget Year:** | 2019 |
| **Project Title:** | Replace 3 Highway Rack/body/utility Trucks, #409, 418 and 419 | **Scenario:** | Main 2019 |
| **Asset Type:** | PICK UP TRUCKS | **Budget Status:** | Department Request |
| **Department:** | C7-422 - Highway | **Regions:** | |
| **Project Type:** | Public Works Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

- 2008, for stormwater system maintenance and repairs, #409, $68,393
- 2006, emergency response to Police and Fire, #418, $60,131
- 2006, daily signs and road markings, and emergency signage for Police and Fire, #419, $60,131

## Comments:

Service performance, pride of service and community support are all emphasized by DPW, with vehicle cleanliness an important expression of those, and a responsibility of DPW staff.

## Justification:

All of the existing vehicles being replaced will have exceeded 10 years in service when replaced (and sold), and nearly all are near to or over 100,000 miles or run-hours equivalent. Industry and Framingham DPW experience indicates that above those thresholds maintenance increases substantially to assure service reliability, as do major repairs, none of which provide a return on investment, and they are not sustainable with the current DPW facility and staffing. In addition to daily service for the various Divisions, they all are used for the Department's snow and ice management program, with many also used to respond to community events and emergencies. Snow plowing is particularly destructive to vehicles.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 188,655 | 0 | 188,655 |
| | **188,655** | **0** | **188,655** |

MHQ VEHICLES ■ EQUIPMENT ■ GEAR

# QUOTE

## CUSTOMER

| | | | |
|---|---|---|---|
| Contact Name: | Fred Davies | Date: | October 25, 2017 |
| Company/Dept: | Town of Framingham Department of Public Works | Valid for: | 60 Days* |
| Street Address: | 100 Western Ave. | Customer #: | 10141 |
| City, State, Zip: | Framingham, MA 01702 | Contract: | GBPC/BAPERN 201 |
| Phone: | 508-532-6070 | Sales Rep: | Greg Keith |
| E-Mail: | fjd@framinghamma.gov | | |

| CONTRACT LINE REFERENCE | LINE DESCRIPTION | | | |
|---|---|---|---|---|
| | | | | |
| F3F | 2018 Ford F350 SRW 4x4 cab chassis regular cab | | | |
| | 141" wheel base - 60" cab to axle | | | |
| | 6.2 liter V/8 gasoline engine | | | |
| | 6 speed automatic transmission | | | |
| | AM/FM stereo w/ clock | | | |
| | Spare tire on wheel | | | |
| 43C | 110V/400 Watt Power Outlet (1) | | | |
| LS | 40/MINI CONSOLE/40 vinyl seat (required for 43C) | | | |
| 473 | Snow Plow prep package | | | |
| 59H | Center high mount stop lamp | | | |
| | Factory upfitter switches | | | |
| 213 | Electronic shift on the fly four wheel drive | | | |
| 531 | Trailer tow package | | | |
| 18B | Factory cab steps - RC | | | |
| 90L | Heated mirrrors, power windows & door locks - | | | |
| SP101 | Factory special paint W6695F Yellow | | | |
| 2.04 | 8' Diamond/Meyer snow plow package | | | |
| | 8' Diamond/Meyer poly snow foil | | | |
| | 8' Diamond/Meyer cutting edge | | | |
| TDX | LT275/75RX18 BSW all terrain tires | | | |
| 64F | 18" heavy duty steel wheels | | | |
| N/A | Driver's door mounted incandescent spotlight | | | |
| 8.32 | 9' Fiberglass utility body - Yellow Gel Coat finish | | | |
| | Mobile Radio | | | |
| | Emergency/safety lights | | | |
| | | **TOTAL** | | **$60,131.00** |
| | | | | |

# QUOTE

**CUSTOMER**

Contact Name: Town of Framingham
Company/Dept: Department of Public Works
Street Address: 100 Western Ave.
City, State, Zip: Framingham, MA 01702
Phone: 508-532-6070
E-Mail: fjd@framinghamma.gov

Date: 10/30/2017
Valid for: 60 Days*
Customer #: 10141
Contract: GBPC/BAPERN 2015
Sales Rep: GAK

| CONTRACT LINE REFERENCE | LINE DESCRIPTION | UNIT PRICE | QTY. | EXTENDED PRICE |
|---|---|---|---|---|
| | | | | |
| F5H | 2018 F550 Chassis 4X4 Regular Cab 145" wb, 60" CA 18,000# GVWR | | | |
| | V10 gasoline engine | | | |
| SP101 | Factory Special Paint, W6695F Yellow | | | |
| | Four Wheel Drive with manual locking hubs | | | |
| | Automatic Transmission, AM/FM radio with digital clock | | | |
| | HD vinyl bench seat, HD vinyl flooring, and spare tire | | | |
| | Factory upfitter switches, spare tire on wheel | | | |
| 43C | 110V/400 Watt Power Outlet (1) | | | |
| 473 | Factory Snow Plow Prep | | | |
| X8L | 4:88 limited slip rear axle | | | |
| 62R | Transmission PTO provision | | | |
| 52B | Trailer brake controller | | | |
| 18B | Black molded running boards factory installed RC | | | |
| TGB | 225/70RX19.5 BSW Traction Tires, Front & Rear | | | |
| 68U | 19,000 Lb. GVWR Payload Upgrade, 60" CA Gas only | | | |
| 2.05 | Diamond/Meyer 9' snow plow w/ poly foil and steel bolt on edge | | | |
| 6.02 | Heavy duty 12'6" platform body with stake sides | | | |
| 6.08 | Steel bulkhead for platform body | | | |
| 6.13 | Diamond plate steel floor in lieu of wood | | | |
| 7.12 | Thieman 2,000# electric hydraulic aluminum lift gate- direct lift | | | |
| | Upgrade tailgate with rollers on slides | | | |
| | Upgrade tailgate with light kit | | | |
| 7.01 | 30" stainless steel under body toolbox | | | |
| 7.02 | Poly rear fenders, frame mounted (Light Duty Chassis) | | | |
| 7.07 | Reinforced plate mounted ball and pintle hook combination | | | |
| 7.05 | Trailer plug, wired | | | |
| 1.16 | Code 3 Electronic back up alarm # D450H | | | |
| N/A | Driver's door mounted incandescent spotlight | | | |
| N/A | Mobile Radio | | | |
| N/A | Emergency/safety lights | | | |
| | | | | |
| | | | TAX: | |
| | | | **TOTAL:** | **$68,393.00** |

**TERMS AND CONDITIONS**

**ORDER ACKNOWLEDGEMENT**

**By signing this document you are agreeing to the above terms and conditions of this order from MHQ, Inc.**

# FY2019 Recommended: Bond $90,000

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Sanitation/2019/B | **Budget Year:** | 2019 |
| **Project Title:** | Dudley Road Landfill Closure - CAAA Study | **Scenario:** | Main 2019 |
| **Asset Type:** | OPEN SPACE | **Budget Status:** | Department Request |
| **Department:** | C4-433 - Sanitation | **Regions:** | |
| **Project Type:** | Public Works Non-Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This funding will provide for the continuing investigation and evaluation of the Dudley Road Landfill that will assess the extent of environmental impacts and formal closure needs.

## Comments:

Formal landfill closure is a multistep process, and a result could require extensive construction and relocation of the current yard waste composting facility.

## Justification:

There is a continuing compliance assurance need for the landfill per the MassDEP Solid Waste Regulations. Failure to close the landfill in accordance with those Regulations could subject the City to fines, potentially dating back to cessation of landfill operations.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 90,000 | 0 | 90,000 |
| | **90,000** | **0** | **90,000** |

CELEBRATING 35 YEARS

November 07, 2017

Mr. Daniel S. Nau
Director of Highway and Solid Waste Management
Town of Framingham
100 Western Avenue
Framingham, MA 01072

**Re: RDC – Demolition Design & Construction of new Solid Waste Operations Building & Corrective Actions Alternative Analysis (CAAA) for Dudley Road Landfill Closure**

Dear Mr. Nau:

This letter confirms the need for $90,000 from the General Fund for the Landfill CAAA Study, and $3,900,000 from the General Fund for the RDC, as described below.

This funding will provide for design services related to the demolition of the former Mt. Wayte Avenue Incinerator Building, construction of a new Solid Waste Operations Building, and the Corrective Action Alternatives Analysis (CAAA) necessary to meet MassDEP requirements for formal closure of the associated Dudley Road Landfill. The former incinerator building is in a severe state of disrepair, and a "best value" sanitation operations support facility will be designed to meet City needs, including equipment protection. In addition, the next phase of the formal landfill closure process (CAAA) stipulated in MassDEP Solid Waste Regulations will be conducted. Failure to close the landfill in accordance with those Regulations could subject the City to fines, potentially dating back to cessation of landfill operations.

Key assets under this project include a new Solid Waste Operations Building and formal closure of the former Dudley Road Landfill.

We trust this information meets your current needs. Please call me with any questions.

Respectfully yours,
**BETA GROUP INC.**

Alan D. Hanscom, LSP
Vice President

Cc: John Rogers, Director of Project Development and Right of Way Acquisition
Kristine Wheeler, Program Administrator and Operations Dispatcher

BETA GROUP, INC.
315 Norwood Park South, 2nd Floor, Norwood, MA 02062
P: 781.255.1982 | F: 781.255.1974 | W: www.BETA-Inc.com

# FY2019 Recommended: Free Cash $84,000

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Sanitation/2019/A1 | **Budget Year:** | 2019 |
| **Project Title:** | Replace Sanitation Packer Arms | **Scenario:** | Main 2019 |
| **Asset Type:** | GARBAGE TRUCK | **Budget Status:** | Department Request |
| **Department:** | C7-433 - Sanitation | **Regions:** | |
| **Project Type:** | Public Works Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

**Description:**

Replace Sanitation packer truck arms, 4 at $21,000 each

**Comments:**

Complete failure of arms now appears possible, which would likely delay collection and increase costs.

**Justification:**

These arms are key to meeting collection schedules, and require increasing amount of maintenance and repair to assure they provide the tens of thousands of lifts needed per week.

**Description:**

**Comments:**

**Project Forecast**

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 84,000 | 0 | 84,000 |
| | **84,000** | **0** | **84,000** |

C.N. WOOD CO., INC.
CONTRACTORS' EQUIPMENT
200 Merrimac Street, Woburn, MA 01801
(781) 935-1919 Fax (781) 937-9809

**Avon, MA**
140 Wales Ave.
(508) 584-8484

**Whately, MA**
102 State Rd.
(413) 665-7009

**Johnston, RI**
60 Shun Pike
(401) 942-9191

**Westbrook, ME**
84B Warren Ave.
(207) 854-0615

**REMIT TO**
C.N. WOOD CO., INC.
DEPARTMENT 1660
P.O. BOX 4110
WOBURN, MA 01888-4110

| Account# | Work Ord | Brc | Sls |
|---|---|---|---|
| 031425 | | 001 | 00 |

S A L E S  O R D E R
E S T I M A T E

| Date | Time | Order # | Page |
|---|---|---|---|
| 11-15-17 | 11:27 | 752885 | 1 |

Sold To: 001
TOWN OF FRAMINGHAM
FLEET SERVICES
100 WESTERN AVE

FRAMINGHAM MA 01702-8306

Ship To:
TOWN OF FRAMINGHAM-HWY DEPT.
100 WESTERN AVE

FRAMINGHAM MA 01702

Ship Via

| Entered By | Customer Purchase Order | Customer Contact | Ord Date |
|---|---|---|---|
| PBurke | | | 11-15-17 |

| Model | Serial Number | Equip ID | Customer Job number | Customer Phone # |
|---|---|---|---|---|
| | | | | 1508-872-4391 |

| Ord | Ship | B/O | Mfg | Part Number | Description | Bin | Unit Price | UM | Extended |
|---|---|---|---|---|---|---|---|---|---|

WE ACCEPT VISA, MASTERCARD & AMEX

FREIGHT TO APPLY

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | Y | NW | 132265 | ..... | | 20,445.96 | Ea | 20,445.96 |

ASSY,VERT MAST,96 GAL,6X6,ASL USED IN PR

MASS Sales Tax Number - 0.00

CUSTOMER SIGNATURE_____
NO PARTS RETURNS AFTER 30 DAYS OF INVOICE

Total Amount 20,445.96

WOBURN HOURS: MONDAY - FRIDAY 6 AM TO 5 PM
SATURDAY 7 AM TO NOON

Total Weight 0.0

# FY2019 Recommended: Free Cash $70,932

| | | | |
|---|---|---|---|
| **Project Number:** | Library/Library/2019/A | **Budget Year:** | 2019 |
| **Project Title:** | New McAuliffe Branch Library Audio-Visual Systems Construction | **Scenario:** | Main 2019 |
| **Asset Type:** | STUDIO/VIDEO/CAMERA EQUIPMENT | **Budget Status:** | Department Request |
| **Department:** | C4-610 - Library | **Regions:** | Precinct 1, Precinct 2, Precinct 3, Precinct 4,... |
| **Project Type:** | Town Technology Hardware | **Active:** | Yes |
| **Year Identified:** | 2016 | **Manager:** | |
| **Start Date:** | Sep 1, 2018 | **Project Partner:** | |
| **Est. Completion Date:** | Oct 1, 2018 | | |

## Description:

This project will create an accessible, built-in audio-visual system in the Community Room of the McAuliffe Branch Library, for use by both library-sponsored programs and outside groups. It will consist of a ceiling-mounted projector, Blu-ray player, wired and wireless microphones, speakers, assistive listening devices, control systems, and other A/V equipment needed to create a cohesive, easy-to-operate system. The project also includes a projection screen for the McAuliffe Library Craft Room to allow A/V presentations in that meeting room, and portable speakers for outdoor events at the branch. Some modest physical changes to the Community Room will be required, which will require the assistance of Building Services.

## Comments:

When the branch library was built in 2016, it had no budget for audiovisual equipment other than a projection screen. The Community Room has proven to be an enormously popular location for meetings of all types, but the absence of a built-in A/V installation has proven quite troublesome. At the beginning of FY2019, the building will have been open for 29 months; it is time to fill this gap.

*Potential to use remaining funding from McAuliffe Library project - reduce appropriation request once confirmed

The amount required for this project is $79,932, of which $9,000 will come from MBLC State Aid, and $70,932 would be sourced from the General Fund/borrowing.

## Justification:

Completing this project will greatly improve the usability of the McAuliffe Branch's Community Room, as envisioned when the room was originally architected, by adding a high-quality, permanent, reliable audio-visual installation. Doing so will save staff time and avert disruption of services by obviating the need to manually configure and troubleshoot our existing ad-hoc, temperamental, A/V equipment. It will allow both staff and patrons to more easily run and enjoy presentations, performances, and other events, without the difficulty, limitations, and unpredictability associated with our temporary solution.

To provide patrons and staff with an interim method of hosting presentations, showing films, and amplifying audio, the library assembled an inexpensive, mobile "projector cart." This system was intended only as a stopgap, pending a permanent A/V installation. We estimate that the cart has been used for library-sponsored programs and outside group events approximately 100 times in the first 10 months of CY2017, including Town-sponsored training programs. However, there have been numerous, serious problems with this temporary solution.

The complete set of problems is detailed in the attached documentation (McAuliffe Community Room AV Capital Project Request), but in brief: The cart needs manual setup and breakdown by staff members, the public makes improper modifications to the cart configuration, technical problems are common, equipment has gotten lost, the cart consumes valuable floor space, and the wiring creates a tripping hazard. Most of these issues routinely threaten to derail important events, and interfere with normal library operations as staff must tend to unpredictable A/V issues.

In addition to the problems with the projector cart and associated logistics, there are also no built-in speakers in the Community Room. Our basic assistive listening system needs to be augmented. And we have limited wireless microphone support, which affects our ability to both host events with multiple performers, and the ability of hearing-impaired attendees to hear presenters/performers who might otherwise be fitted with microphones solely for assistive reasons.

Beyond the Community Room, events are also held in the Craft Room, but we lack a projection screen in that room. We also hold outdoor events at the McAuliffe Branch, and have been frequently borrowing luggable, battery-powered speakers from the Main Library, which is inefficient, so the Branch needs its own dedicated set of portable speakers.

## Description:

## Comments:

# FY2019 Recommended: Free Cash $70,932

**Project Forecast**

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 79,932 | 0 | 79,932 |
| | **79,932** | **0** | **79,932** |

# McAuliffe Library Community Room use

**Note: Not all events used A/V Equipment, but most Outside Group events did**

**CALENDAR YEAR**

| 2017 | Outside Groups | Library Programs | Total Use |
|---|---|---|---|
| January | 15 | 10 | 25 |
| February | 10 | 9 | 19 |
| March | 18 | 5 | 23 |
| April | 20 | 8 | 28 |
| May | 15 | 12 | 27 |
| June | 13 | 12 | 25 |
| July | 6 | 11 | 17 |
| August | 7 | 19 | 26 |
| September | 8 | 12 | 20 |
| October | 11 | 15 | 26 |
| **TOTAL YTD** | **123** | **113** | **236** |

| 2016 | | Outside Groups | Library Programs | Total Use |
|---|---|---|---|---|
| January | | Not open | | |
| February | (16-28 only) | 2 | 2 | 4 |
| March | | 12 | 9 | 21 |
| April | | 10 | 13 | 23 |
| May | | 9 | 14 | 23 |
| June | | 13 | 13 | 26 |
| July | | 7 | 6 | 13 |
| August | | 7 | 13 | 20 |
| September | | 11 | 8 | 19 |
| October | | 7 | 7 | 14 |
| November | | 14 | 12 | 26 |
| December | | 13 | 10 | 23 |
| **TOTAL** | | **105** | **107** | **212** |

**FISCAL YEAR**

| FY17 (July '16-June '17) | Outside Groups | Library Programs | Total Use |
|---|---|---|---|
| July | 7 | 6 | 13 |
| August | 7 | 13 | 20 |
| September | 11 | 8 | 19 |
| October | 7 | 7 | 14 |
| November | 14 | 12 | 26 |
| December | 13 | 10 | 23 |
| January | 15 | 10 | 25 |
| February | 10 | 9 | 19 |
| March | 18 | 5 | 23 |
| April | 20 | 8 | 28 |
| May | 15 | 12 | 27 |
| June | 13 | 12 | 25 |
| **TOTAL YTD** | **150** | **112** | **262** |

| FY18 (July '17-Oct '17) | Outside Groups | Library Programs | Total Use |
|---|---|---|---|
| July | 6 | 11 | 17 |
| August | 7 | 19 | 26 |
| September | 8 | 12 | 20 |
| October | 11 | 15 | 26 |
| **TOTAL** | **32** | **57** | **89** |

| FY 16 (Feb '16-June '16) | | Outside Groups | Library Programs | Total Use |
|---|---|---|---|---|
| February | (16-28 only) | 2 | 2 | 4 |
| March | | 12 | 9 | 21 |
| April | | 10 | 13 | 23 |
| May | | 9 | 14 | 23 |
| June | | 13 | 13 | 26 |
| **TOTAL** | | 46 | 51 | 97 |

Powering ideas.

A PROPOSAL FOR

# THE MCAULIFFE LIBRARY

FRAMINGHAM, MASSACHUSETTS

## Community Room Presentation Upgrades

November 8, 2017

**Submitted by:**
HB Communications, Inc.
www.hbcommunications.com
800.243.4414

Powering ideas.

November 8, 2017

Mr. Alan Mandel
Supervisor of Technology
Framingham Public Library
746 Water Street
Framingham, MA 01701

Re: Community Room Presentation Upgrades

Dear Alan,

Thank you for inviting HB Communications, Inc. to submit a revised proposal for the presentation improvements required at the McAuliffe Library. Our proposal is based on our visits and meetings with you and your staff at the Library, as well as the internal discussions that have followed.

The pricing contained in the proposal was created using the Massachusetts OFF40 State Purchasing Contract guidelines for all equipment, materials, and services.

Please consider the benefits of working with HB — a company that has been in the industry for over 70 years. Our experience, attention to detail, and commitment to consistently deliver quality service has set us apart all these years.

We look forward to meeting with your project team to review this proposal at your earliest convenience.

Regards,

William Mintzer
Senior Account Executive
HB Communications, Inc.

*HB Communications, Inc. is an Affirmative Action/Equal Opportunity Employer*

**Corporate Office**
60 Dodge Avenue
North Haven, CT 06473
203.234.9246

**Boston Office**
1432 Main Street
Waltham, MA 02451
781.890.6046

**New York Office**
1130 Globe Avenue
Mountainside, NJ 07092
908.654.3600

**HB Communications UK, LTD**
11th Floor Beaufort House, 15 St. Botolph Street
London, EC3A 7BB, United Kingdom
+44 (0) 20 3102 6896

**Sales & Information**
800.243.4414
**Customer Service**
800.852.8441

hbcommunications.com

CT Lic. # ELC. 0200599-E1 RI Lic. # TSC–5110

# STATEMENT OF WORK

## Summary:

The Community Room at the McAuliffe Library in Framingham will require an HD projector for use with an existing ceiling recessed screen; the room is in need of some additional functionality and overall system upgrades. HB has been asked to design and implement upgrades to include a permanently mounted HD projector and room control system. We will include a new audio system with wireless microphones and ceiling speakers for reinforcement, as well as an expansion of the current assisted listening capabilities.

New equipment racks are included to house the components, and HB will work with the Library staff on the design and layout of the equipment. Our proposal also includes a screen for the adjacent Children's Craft Room, and portable audio system for general use.

## System Description:

The completed system must output to a fixed, ceiling mounted HD projector, projecting on to the OFE projection screen. Public must be able to connect a laptop via HDMI, VGA, or wirelessly via integrated wireless presentation gateway, to a rack-mounted PC and display movies via a controllable Blu-ray player.

Core system components shall reside within an equipment rack installed in the closet next to the kitchenette. Public facing equipment will be installed into a wall recessed equipment rack that will be installed in the wall between the current two closets.

A wall dock-able wireless control panel will be installed on the wall adjacent to equipment rack closet. Control panel will remained locked in dock and require user password to undock. Control system will be added to the Library LAN to allow staff access to control system via web-browser (xPanel).

Systems sources shall include:

- AV system inputs:
  - HDMI and VGA with 1/8" analog audio input. Input panel will be installed under windows to right of projection screen. Input connection shall require two-gang electrical back box with 1 and ¼" conduit installed in wall below window between back box and closet which is closest to the windows.
  - Two 1/8" auxiliary audio inputs for use with personal music players such as iPods, and cellular phones with standard headphone jacks
    - One Auxiliary input connector shall be installed on custom rack panel installed on 'in-wall' equipment rack. In wall equipment rack is described in more detail below, but will be mounted in such a way as to be accessible by community members using the space.
    - The other auxiliary input connector shall be mounted with other AV connectors below the windows.
  - Auxiliary AV inputs for legacy equipment
    - Auxiliary AV connectors shall be RCA connectors labeled for Composite video and Stereo Left / Right audio connections.
    - Auxiliary AV connectors shall be installed on custom rack panel installed on 'in-wall' equipment rack.
  - Auxiliary microphone and line inputs on input plate installed on wall below windows with other AV connections
    - Two (2) Microphone inputs shall be on female XLR connectors
    - Two (2) Line inputs shall be stereo Left / Right connectors on balanced ¼" TRS connectors
      - Line input connections here are provide for use when an out-board audio mixer is required by meetings/events where more and different microphone types are required beyond the wireless microphones provide below.

- Blu-Ray player;
    - Blu-ray player shall be accessible to public and installed in 'in-wall' equipment rack
    - Blu-ray player 'transport' controls (remote functions) shall be replicated on control system touch panel
    - A 'cold spare' Blu-ray player matching the model provide above will be provide for library staff to be able to swap out if a member of the public damages the primary player.
- "Room PC" provided by the Library shall be installed in equipment rack installed in closet
    - If Room PC is not rack mountable, it will be secured to a rack shelf when installed in the equipment rack.
    - Room PC shall have 'RF' wireless key board and mouse to be controlled by room users.
    - Room PC shall have user accessible USB connections installed in custom rack panel installed on 'in-wall' equipment rack.
- Cable TV - a cable set top box provided by the Library shall be connected to the system
    - Control system touch panel shall provide controls for cable box including Channel up / down and manual channel inputs.
- Wireless presentation – the system shall provide a means for wirelessly presenting from mobile devices, including iOS, Android and laptop devices. Wireless presentation system will provide system splash screen with access instructions and a unique randomly generated pin to prevent access by individuals outside of the room.
- Spare HDMI input will be installed in equipment rack.
- Input to AV system from remote room (Costin Room).

- Audio sub system requirements:
    - Six wireless microphones consisting of:
        - Three handheld microphones.
        - Three lavalier microphones with wireless belt packs.
    - Loud speakers consisting of:
        - Two (2) program speakers, mounted on soffit above windows to left and right of screen providing audio for presentation materials including Blu-ray system.
        - Four (4) Ceiling speaker for voice lift / sound reinforcement.
    - Audio Digital Signal Processor (DSP) will provide audio mixing and processing for sound system:
        - A VOIP card will be installed in DSP – this feature will not be implemented with the initial deployment, but functionality may be added at future day via programming and DSP Code updates.
            - NOTE: VOIP card is directly compatible with specific VOIP systems. A list of support systems will be provided; any VOIP system not specifically listed may require additional bridging hardware when implemented.
            - Compatible VOIP systems may be found at the following hyperlink: https://support.biamp.com/Tesira/VoIP
    - Assisted Listening System (ALS) shall utilize existing belt packs by Williams Sound, a permanent RF ALS transmitter shall be installed in equipment rack:
        - RF antenna will be surface mounted to wall above closet door.
        - ALS system shall be compatible with existing belt packs, model number R37.
        - ALS system should support eight users, Framingham currently possesses 4 receivers.
        - Two additional neck loops shall be provided.
    - Two floor stands and two table top stands will be provide for use with the hand held microphones. Two (2) hand held microphones and with 25' microphone cords will be provided.
- System outputs:
    - System shall output HD signal to ceiling mounted projector.
    - System presentation feed should output to broadcast plate.

- Control system, additional details:
    - Control system touch panel will have initial splash screen with one-touch 'buttons' for most common room uses. Tapping one of these buttons will turn on projector, drop down screen, and switch AV system router to appropriate input. Touch panel will switch to display any appropriate source controls (e.g. transport controls for Blu-ray payer).
    - Touch panel will have separate speech and program volume controls. These will allow independent volume control of microphone mix or program volume. These will controls will have independent mutes including video mute function for projector.
    - Control system will have advanced page behind pass-word protection that allows for advanced controls such as:
        - Individual mic controls allowing for mix levels for individual mics, auxiliary mic inputs and line inputs.
        - Independent screen control function (up/down).
- Equipment Racks:
    - Two equipment racks will be provide for the system,
        - The primary equipment rack shall be 40 Rack spaces tall, 27 inches deep mounted on Casters and include a locking vented front door. The primary rack shall be located in the closet space closest to the kitchenette
        - The secondary rack shall be mounted in wall between the two closets in such a way that it is accessible to community members using the room and at a height that is ADA compliant. The wall mounted rack shall be 10 Rack spaces tall, and will be mounted in the rough opening in such a way that the rack can be slid out so that equipment can be services.
            - Rough opening shall accommodate the following minimum dimensions:
                - Depth (US): 18.75
                - Height (US): 19.26
                - Width (US): 19.06
            - Rough opening shall not be closed off above to allow equipment heat to dissipate.
- Other:
    - A manual, wall-mounted projection screen with a wood veneer matching the room trim shall be provided for the children's craft room.
    - A battery powered audio PA system shall be provide for general use outside of the common room.

Additional notes, site requirements:

- City of Framingham will be responsible for installing two-gang back box and conduit below windows and patching any holes created as a result.
- City of Framingham will be responsible for cutting and framing an opening for wall recessed equipment rack, rough opening should not be completely enclosed above and allow any equipment generated heat to escape into the plenum.
- City of Framingham will be responsible for providing power for AV equipment including:
    - Wall recessed equipment rack.
    - Equipment rack installed in closet.
    - In ceiling at projector location.
    - Wall mounted projector in Children's craft room
- City of Framingham shall provide any required networking information or requirements affecting AV system (e.g. IP addresses, Subnet Mask, Gateway) which will allow xPanel access by library staff members.

# PRICING

| Item | Qty | Manufacturer | Model | Description | MSRP | Discount | Unit | Total |
|---|---|---|---|---|---|---|---|---|
| | | | | **Equipment** | | | | |
| 1 | 1 | Sony | VPL-CH370/W | 5000 Lumen WUXGA LCD Projector | 3,380.00 | 15.00% | 2,873.00 | 2,873.00 |
| 2 | 1 | Chief | CMS492C | Ceiling Tile Back Box Enclosure | 672.00 | 30.00% | 471.00 | 471.00 |
| 3 | 1 | Chief | RSMAUS | Projector Mounting Hardware | 237.00 | 30.00% | 166.00 | 166.00 |
| 4 | 1 | HB | Custom | Miscellaneous Mounting Hardware | 400.00 | 10.00% | 360.00 | 360.00 |
| 5 | 1 | Crestron | DM-RMC-4K-100-C | DigitalMedia 8G+ Receiver and Room Controller for Projector | 900.00 | 35.00% | 585.00 | 585.00 |
| 6 | 1 | Draper | ACLE28-79 | **OFE** - 10-Foot Wide Motorized Projection Screen | | | **OFE** | **OFE** |
| 7 | 1 | Crestron | DM-TX-200-C-2G-W-T | DigitalMedia 8G+ Transmitter 200, White Input Plate | 1,400.00 | 35.00% | 910.00 | 910.00 |
| 8 | 1 | Crestron | DMPS3-4K-300-C | 3-Series DigitalMedia Presentation Switcher / Control System | 10,000.00 | 35.00% | 6,500.00 | 6,500.00 |
| 9 | 1 | Crestron | TSW-760-W-S | 7" Touch Screen, White | 1,400.00 | 35.00% | 910.00 | 910.00 |
| 10 | 1 | Netgear | GS728TP-100NAS | ProSAFE GS728TP 24-Port Gigabit PoE Smart Managed Switch | 599.00 | 10.00% | 540.00 | 540.00 |
| 11 | 2 | Denon | DN-500BDMKII | Blu-ray/DVD/CD Player with 7.1 Output and RS-232C | 399.00 | 15.00% | 340.00 | 680.00 |
| 12 | 1 | Crestron | DM-TX-201-C | DigitalMedia 8G+ Transmitter 202 | 1,300.00 | 35.00% | 845.00 | 845.00 |
| 13 | 1 | HB | Custom | Custom Rack Plate with Composite Video Inputs | 450.00 | 10.00% | 405.00 | 405.00 |
| 14 | 1 | Crestron | DMC-VID-RCA-A | Composite to HDMI XVTR | 650.00 | 35.00% | 423.00 | 423.00 |
| 15 | 1 | Crestron | DMCI | DigitalMedia™ Card Interface for above | 400.00 | 35.00% | 260.00 | 260.00 |
| 16 | 1 | TBD | **OFE** | Owner Furnished PC for Equipment Rack | | | **OFE** | **OFE** |
| 17 | 1 | UPS | MSFT-2LF-00001 | Wireless Desktop 850 Keyboard and Mouse | 69.00 | 10.00% | 63.00 | 63.00 |
| 18 | 1 | Extron | 60-1471-12 | Twisted Pair Extender for USB Peripherals - Transmitter | 690.00 | 35.00% | 449.00 | 449.00 |
| 19 | 1 | Extron | 60-1471-13 | Twisted Pair Extender for USB Peripherals - Receiver | 690.00 | 35.00% | 449.00 | 449.00 |
| 20 | 1 | Crestron | AM-101 | Crestron AirMedia Wireless Presentation Gateway | 1,600.00 | 35.00% | 1,040.00 | 1,040.00 |
| 21 | 1 | AJA | Hi5-Plus | SDI to HDMI Mini-Converter | 395.00 | 10.00% | 356.00 | 356.00 |
| 22 | 1 | AJA | HA5-Plus | HDMI to SDI Mini-Converter | 395.00 | 10.00% | 356.00 | 356.00 |
| 23 | 1 | OFE | Cable Box | **OFE** - Provided Cable Box with HDMI Output | | | **OFE** | **OFE** |
| 24 | 3 | Shure | MXW2/SM58 | Handheld Transmitter with SM58 Microphone | 716.00 | 20.00% | 573.00 | 1,719.00 |
| 25 | 3 | Shure | MXW1/0 | Bodypack Transmitter Lavalier Base | 698.00 | 20.00% | 559.00 | 1,677.00 |
| 26 | 3 | Shure | WL184 | Microflex Supercardioid Lavalier Microphone | 133.00 | 20.00% | 107.00 | 321.00 |
| 27 | 1 | Shure | MXWAPT8 | 8-Channel Access Point Transceiver | 4,260.00 | 20.00% | 3,408.00 | 3,408.00 |
| 28 | 1 | Shure | MXWANI8 | 8-Channel Network Interface | 1,560.00 | 20.00% | 1,248.00 | 1,248.00 |
| 29 | 1 | Shure | MXWNCS8 | 8-Channel Networked Charging Station | 2,220.00 | 20.00% | 1,776.00 | 1,776.00 |
| 30 | 2 | Shure | SM58-CN | Cardioid Dynamic Handheld Microphone with 25-Foot XLR Cable | 136.00 | 20.00% | 109.00 | 218.00 |
| 31 | 2 | DS7200B | On Stage | Table-top Microphone Stand - Black - Range 9"-13" | 23.00 | 25.00% | 18.00 | 36.00 |
| 32 | 2 | MS-20E | Atlas Sound | Heavy Duty Microphone Floor Stand - Black - Range 37"-66" | 128.00 | 30.00% | 90.00 | 180.00 |
| 33 | 1 | Biamp | Tesira SERVER-IO AVB | Audio DSP Frame | 5,990.00 | 25.00% | 4,493.00 | 4,493.00 |
| 34 | 1 | Biamp | SEC-4 | 4-Ch Mic/Line Input Card with Acoustic Echo Cancellation | 650.00 | 25.00% | 488.00 | 488.00 |
| 35 | 4 | Biamp | SIC-4 | Tesira 4-Channel Mic/Line Input Card | 295.00 | 25.00% | 222.00 | 888.00 |
| 36 | 1 | Biamp | SVC-2 | Tesira 2-Line VoIP Telephone Interface Card | 525.00 | 25.00% | 394.00 | 394.00 |
| 37 | 2 | Biamp | SOC-4 | Tesira 4-Channel Mic/Line Output Card | 265.00 | 25.00% | 199.00 | 398.00 |
| 38 | 1 | Williams Sound | PPA T45 | Large-area FM Base-station Assisted Listening Transmitter | 834.00 | 25.00% | 626.00 | 626.00 |
| 39 | 1 | Williams Sound | RPK 005 | Rackmount Kit | 62.00 | 25.00% | 47.00 | 47.00 |
| 40 | 1 | Williams Sound | ANT 034 | Remote Antenna Extension | 102.00 | 25.00% | 77.00 | 77.00 |
| 41 | 4 | Williams Sound | PPA R37 | Intelligent DSP RF Receiver (72 MHz) - 4 Additional Per System | 123.00 | 25.00% | 93.00 | 372.00 |
| 42 | 4 | Williams Sound | NKL 001 | Assited Listening Neckloop - 18-Inch Cord - 3.5mm Plug | 51.00 | 25.00% | 39.00 | 156.00 |
| 43 | 1 | Crown | DCi 4\|300 | 4-Channel Amplifier | 2,198.00 | 25.00% | 1,649.00 | 1,649.00 |
| 44 | 1 | Sonance | PS-S63T | Left and Right Program Speakers - Pair - White | 440.00 | 10.00% | 396.00 | 396.00 |
| 45 | 2 | Sonance | S6 | Mounting Bracket for Above | 35.00 | 10.00% | 32.00 | 64.00 |
| 46 | 4 | Sonance | PS-C63RT | 6.5" Ceiling Speakers | 180.00 | 10.00% | 162.00 | 648.00 |

# PRICING CONTINUED

| Item | Qty | Manufacturer | Model | Description | MSRP | Discount | Unit | Total |
|---|---|---|---|---|---|---|---|---|
| 47 | 1 | HB Custom | Wall Plate | Custom Wall Plate; Auxiliary Audio Inputs | 450.00 | 10.00% | 405.00 | 405.00 |
| 48 | 1 | HB Custom | Wall Plate | Custom Wall Plate; Outputs to Broadcast System | 400.00 | 10.00% | 360.00 | 360.00 |
| 49 | 1 | Artel | 3350-B7L | Fiberlink Single Mode Fiber Transmitter - LC | 995.00 | 5.00% | 946.00 | 946.00 |
| 50 | 1 | Artel | 3351-B7I | Fiberlink Single Mode Fiber Receiver - LC | 995.00 | 5.00% | 946.00 | 946.00 |
| 51 | 1 | Middle Atlantic | WRK-40-27LRD | 40 Space, 27" Deep Equipment Rack | 1,387.00 | 35.00% | 902.00 | 902.00 |
| 52 | 1 | Middle Atlantic | LVFD-40 | Vented Front Door, 40 RU Racks | 543.00 | 35.00% | 353.00 | 353.00 |
| 53 | 1 | Middle Atlantic | SPN-40-267 | Side Panels | 593.00 | 35.00% | 386.00 | 386.00 |
| 54 | 1 | Middle Atlantic | CBS-WRK-27 | Rack Caster Base | 221.00 | 35.00% | 144.00 | 144.00 |
| 55 | 1 | Middle Atlantic | PD-915R | Rack Power Strip | 151.00 | 35.00% | 99.00 | 99.00 |
| 56 | 1 | Middle Atlantic | SRS2-10 | Wall Mounted Recessed Rack | 629.00 | 35.00% | 409.00 | 409.00 |
| 57 | 1 | Middle Atlantic | PD-715SC-NS | Slim Rackmount Power Strip - 7-Outlet | 116.00 | 35.00% | 76.00 | 76.00 |
| 58 | 1 | Middle Atlantic | SSL | Sliding Rack Shelf, 1 RU, Laminated | 136.00 | 35.00% | 89.00 | 89.00 |
| 59 | 1 | Middle Atlantic | D3LK | Drawer, 3 RU, Anodized, w/Lock | 286.00 | 35.00% | 186.00 | 186.00 |
| 60 | 1 | Dalite | 94361 | Wall Mounted 16:9 Manual Screen with CSR - White - 8 Foot | 686.00 | 20.00% | 549.00 | 549.00 |
| 61 | 1 | Dalite | VN | Wood Veneer Case to Match Room Trim | 417.00 | 20.00% | 334.00 | 334.00 |
| 62 | 1 | Anchor Audio | GG-DP-AIR | Go Getter Deluxe Air Package - Dual Speakers on Stands | 2,140.00 | 20.00% | 1,712.00 | 1,712.00 |
| | | | | - Wireless Mic and Battery Powered Speaker | | | | |
| 63 | 1 | HB | Materials | Cables, Connectors, Hardware, etc. | 6,590.00 | 10.00% | 5,931.00 | 5,931.00 |
| | | | | **TOTAL EQUIPMENT:** | | | | **$53,747.00** |

| | | | **Technical Services** | |
|---|---|---|---|---|
| 1 | HB | Engineering | System Design and Engineering | 2,000.00 |
| 2 | HB | Drafting | Drafting and Documentation | 2,100.00 |
| 3 | HB | Pre-installation | Shop Assembly and Testing | 4,730.00 |
| 4 | HB | Programming | System Programming | 4,180.00 |
| 5 | HB | Installation | On-site Installation, Testing, and Training | 9,750.00 |
| 6 | HB | Project Management | Project Management and Site Coordination | 2,520.00 |
| 7 | HB | G&A | General Administration | NA |
| 8 | HB | Freight | Shipping and Freight - In/Out | 905.00 |
| 9 | HB | Site Warranty | 6-Months, See Terms | No Charge |

| | |
|---|---|
| **TOTAL NON-EQUIPMENT:** | **$26,185.00** |
| **TOTAL PROJECT - excluding applicable taxes:** | **$79,932.00** |
| Sales tax | TE |
| **TOTAL PROJECT INCLUDING TAX:** | **$79,932.00** |

* Prices shown are good for 30 days

# PAYMENT TERMS & CONDITIONS

A written contract, purchase order, or other acceptable authorization to proceed must be received prior to the start of all work. HB will submit an initial invoice covering engineering/design services and any initial procurement. The value of this mobilization charge will equal approximately 30% of the entire project value; the invoice is due 'Net 15'.

Each month for the duration of the project, HB will issue a progress billing invoice representing charges for all costs incurred to date, including labor and all goods "bought and stored". Verification of goods received and stored at our facilities will be supplied upon request. Verification may be in the form of receiving records, serial numbers, photographs, personal inspection or other agreeable format.

## Insurance

- An insurance certificate detailing typical coverage will be furnished upon request
- Any additional coverage, if required, will be billed at cost

## Taxes

The Customer shall be responsible for the payment of all sales, use and excise taxes, and any other similar taxes, duties and charges of any kind imposed by any federal, state or local governmental entity on any amounts payable by Customer for the Deliverables and/or Services purchased hereunder whether remitted to HB or directly to the appropriate taxing authority. However, in no event shall the Customer pay or be responsible for any taxes imposed on, or with respect to, HB's income, revenues, gross receipts, personnel or real or personal property or other assets.

# STANDARD TERMS & CONDITIONS

## Millwork

All millwork shall be supplied by the Customer, unless specifically identified on the accompanying equipment list. It is the responsibility of the Customer and/or its agents to fabricate the millwork pieces to conform to all dimensional, electrical and thermal requirements.

## Blocking/Supports

All in-wall blocking required to support AV equipment or displays shall be furnished and installed by others.

## Loudspeaker Rigging

HB assumes that all loudspeaker rigging attachment points to base building structure will be engineered and installed by others. Rigging hardware included in this offering is limited to hardware attached to the loudspeaker for purposes of flying and aiming the loudspeaker, vertical cables and shackles or other hardware to attach to structural hanging points by others. No horizontal structural steel is included.

## Data, Telecom and VoIP Wiring and Networks

All client network, Ethernet, analog telephone, and other infrastructure wiring required to complete the AV systems functional requirements is the responsibility of the Client. Client WAN, LAN, VLAN, VoIP, analog (POTS) networks, both wired and wireless, as well as any other required networks, must be fully configured and operational at the time of system setup and commissioning. It is assumed that the Client will supply the necessary wiring, information and technical support required to facilitate interfacing their network(s) with the AV system(s). In the event that the client fails to provide the aforementioned requirements in a timely manner and that failure effects the efficient completion of the project, (i) HB will be held harmless for systems that do not meet scheduling requirements and (ii) costs associated with delays and inefficiencies including additional hours or overtime labor rates, shall be considered outside the scope of this offering and will be billable to the Client.

## Phasing and Grounding

All 120-volt AC receptacles and power purposed with feed to all equipment must be independent ground and same phase. If HB discovers improper phasing or grounding to be the cause of functional anomalies, Customer will remedy without penalty or cost to HB.

## Vibration, Ambient Noise and Acoustics

Excessive vibration may cause certain equipment (i.e., ceiling-mounted video projectors and microphones) to malfunction. Conference and recording systems, which employ open microphones, may not perform properly if excessive ambient noise or reverb is present. If any of these conditions exist, HB will be held harmless; costs associated with remedy of these conditions will be considered billable to the Customer.

## Delivery and Acceptance

The Customer agrees to designate a representative who will have the authority to sign for delivery of equipment. Customer is responsible for the security and loss liability of all delivered equipment. Acceptance of delivery does not imply that systems have been accepted as functional. Unless other arrangements are made, a secure, lockable space will be furnished for storage of equipment and material.

## Low Voltage Interfaces

Only those low voltage interfaces specifically included on the attached equipment list are included in this offering. All owner furnished equipment is assumed to be supplied with the appropriate low voltage interface and low voltage interfaces required to connect to any systems furnished and/or installed by others, are assumed to be supplied by the contractor.

## Seismic Certification & Compliance

The cost of any seismic studies or remedies required by local or state-building codes is not included in this proposal.

## Labor Costs

All labor costs included in this offering are based on use of HB staff, non-union personnel. All labor costs are calculated as straight-time during normal business hours, and using the MA OFF40 State Contract Guidelines. Requirement for union or overtime rates are considered additional to this offering.

## Schedule

If, through no fault of HB, the agreed upon installation schedule changes, HB will exercise its best efforts to accommodate the new schedule. Any costs associated with schedule changes are considered outside of the scope of this offering and will be negotiated as required.

## Completion and Test

The project schedule must allow sufficient time for completion of all installation and final testing of systems prior to occupancy of the site. If sufficient time is not allowed, HB will be held harmless for systems that do not meet requirements. In this case, all costs associated with completion of work, including overtime labor rates, will be considered outside the scope of this offering and billable to the Customer.

## Plenum Rating

Cable and equipment to be installed in air handling spaces is plenum rated as required by code. All other cable is priced as non-plenum.

## Restocking Fees

Any equipment ordered for the project and then returned at the discretion of the Customer may be subject to manufacturer approval to return and will be subject to a 25% restocking fee.

## Software License

Source code for all software developed within the scope of this offering remains the property of HB. Licensing terms are available upon request.

## Updates to Existing Control Code

Updates of any existing control system that was not programmed by HB requires the most current, un-compiled source code for both the control processor and any and all of the touch panels connected to the system be provided to HB. If not available code will have to be re-written at additional cost, not included in this proposal.

## Owner Furnished Equipment (OFE)

All equipment furnished by the Customer, whether new or used, is presumed to meet original specifications and functionality. If any OFE does not meet specifications, cost of all remedies will be borne by the Customer.

## Screen Installations

The customer will be responsible for all construction, finishing, and electrical costs associated with the installation of projection screens, both rear screen and ceiling/wall mounted.

## Wall or Ceiling Finish Work

The customer will assume responsibility for repairing, patching and painting all walls or ceiling finishes that may be disturbed as the result of penetrations and mounting procedures.

## Site Installation

Typical delivery is (8) eight weeks to (10) ten weeks.

## Permits

The cost of any building permits required by any municipalities will be passed on to the owner.

# WARRANTY

All equipment contained in this system includes and is governed by a manufacturer's warranty. All manufacturers' warranties are honored and serviced. HB warrants all system installations for six months. Standard Warranty includes the workmanship and labor provided by HB Communications and all of its subcontractors covering the scope of work included in this proposal.

During the six months, HB will provide all necessary labor required to repair or replace any defects in workmanship, cabling, connectors, equipment mounting, software and all other "non-equipment" related systems installed under the contract.

System warranty shall include the coverage of all equipment, specific to each manufacturer's warranty for each product included in the contract.

## Service & Response Times

Scheduled service shall be performed for corrective service and emergency maintenance and then only during normal business hours during normal business days. Normal business hours shall be from 8:00 AM to 5:00 PM and normal business days Monday through Friday, national and local holidays accepted.

HB makes every effort possible to respond to customers' needs as quickly as possible. Response time from a customer's initial call for emergency service is usually within two (2) hours for telephone response and twenty-four (24) hours for on-site service.

## Exclusions

Unless otherwise covered under a manufacturer's warranty, the remedy of failure caused by the following is excluded from the Warranty: normal use and wear, hazardous environmental conditions, continual use in excess of manufacturer's recommendations and alteration of the system or any of its component parts.

Customer shall be responsible for the costs of any repair or replacement parts resulting from exposure of the equipment to abnormal acts or operating conditions over and above expected wear and tear such as fire, storm, lightning, theft, physical abuse, mishandling, vandalism, acts of God, or other causes beyond the reasonable control of HB, for use of a product in an application other than what the unit was intended for or attempted repairs by anyone other than HB's personnel or designated agent.

Such repair or replacement, when requested by the Customer, will be done by HB and billed to the Customer at the published rate, including parts and labor. HB's standard field service rate is $140.00 per hour during normal business hours, portal to portal, with a minimum charge of four hours.

## Warranty Period

The warranty period shall begin when the client receives beneficial use of the system, or at final acceptance, whichever comes first.

## Extended Warranty and Warranty Options

Customer may choose to extend the duration of the Standard Warranty, improve on Service & Response Time commitments, or request that Preventive Maintenance be performed during the warranty period. These options can be provided at an additional charge and include:

- Extend duration of Standard Warranty
- Response Time Commitment of Next Business Day
- Response Time Commitment of Four (4) Hour response to Critical Incident
- Preventive Maintenance Visits – One or more preventive service visits during the Warranty Term.

# SERVICE AGREEMENTS

Upon expiration of the Standard Warranty period, future service by HB is provided under Time and Materials terms and fees applicable at that time unless Customer engages in a Service Agreement. The benefit of HB Service Agreements is that HB will continue to warrant the workmanship and labor, provide Service Level Agreement (SLA) response time commitments, and include an agreed upon number of Preventive Maintenance Visits during the term of the contract.

## Service Level Agreements (SLA)

HB offers three maintenance agreements based on varying degrees of service and response times. Of course, plans can be customized to individual circumstances and needs. Agreements are typically entered into for one to three years. As an example, a typical Silver Service Agreement with average coverage for the equipment contained in this proposal would be priced at $3,147.00 for a single year.

| | PLATINUM | GOLD | SILVER |
|---|---|---|---|
| Emergency call back | 1 hour | 1 hour | 1 hour |
| On-site visit after initial call | 4 hours (24/7) | 1 business day | 2 business days |
| Preventive maintenance visits | 4 visits/year | 2 visits/year | 1 visit/year |
| Loaner projector(s)/display(s) | Yes | Yes | No |
| Onsite emergency visits | Unlimited | Unlimited | Unlimited |
| Training for all equipment | Unlimited | Unlimited | No |
| Advanced parts replacement | 24 hours for most major hardware | 2 business days | Standard ground shipping |
| Access to video test facilities | 24 hours (scheduling ahead required) | During regular business hours | No |
| System functionality guarantee | Yes | Yes | Yes |
| Phone support | Unlimited | Unlimited | Unlimited |
| Rental and event support service can be provided through HB Group | Available | Available | Available |

## Strategic Staffing Services

Under an HB Staffing Agreement, HB assigns each Customer one or more HB Audio Visual Support Specialist (AVSS) to assist in the use and operation of the systems at the customer facility. HB Staff Technicians are an extension of our client's staff and report daily to their assigned client site. They are typically responsible for ongoing support for the use and functionality of audio and video technology, providing support for users, meeting and events, and may be involved in the planning and implementation of change or new installation of AV, Video, or related solutions at the client location.

# ROOM READINESS

The following describes the physical conditions we require at the site in order to bring equipment into the designated area. These "room ready" conditions have been developed to insure proper site conditions that pose no compromise to the proper operation and performance of the equipment. Further, they will allow our installers to work at maximum efficiency insuring timely completion. Where reasonable or possible:

## Conduit

Prior to commencement of work by HB, Customer will assure that adequate cable pathways or conduit are furnished. All conduit may not exceed 40% fill per NEC standards. If HB discovers insufficient conduit capacity, Customer will remedy without penalty or cost to HB.

## 120-Volt Power

All permanent 120-volt AC power and work is the responsibility of the Customer and must be in place. This includes the electrical connection to any electric projection screens. All receptacles must be properly grounded per NEC requirements, and all circuits must be of sufficient capacity to provide full turn on power to all system racks without tripping breakers. Location of all 120-volt receptacles must be within reasonable and logical proximity of equipment.

## Equipment Delivery

Prior to the delivery of all equipment and electronics, all spaces are "broom-clean" and the site is free of dust and dirt. All construction, including drywall, painting, ceilings, flooring and millwork is complete. If, at the discretion of the Customer, equipment is brought to site before it is clean, functionality, longevity and warranties may be compromised.

## OSHA Requirements

Prior to commencement of work by HB, the job site must meet OSHA requirements for a healthful workplace. Appropriate safety policies should be set, maintained, and enforced by all work forces.

# CLOSEOUT PROCESS

In order to ensure that the client will be satisfied with a complete project, HB has developed a Closeout Process. This process ties up any loose ends ensuring that the project is complete.

## Final Testing

HB will complete final termination, testing and "de-bugging" of installed systems.

## Documentation

All documents referring to the project including spec sheets are handed over to the client for their records.

## Equipment Manuals

HB will provide sets of equipment manuals for each piece of equipment in your project.

These manuals can be hardcopy and available on CD.

## Training

After equipment has been installed, HB will train the client end users on how to use the systems. Training is scheduled based on the customer's schedule.

## Installation Sign-Off

HB utilizes an "Installation Sign-Off" form to signify project completion.

This document provides a mechanism for the Owner to acknowledge completion or receipt of beneficial use of the system or to identify performance exceptions to the system.

HB is able to remedy such exceptions on a timely basis and then identifies the beginning of the warranty period.

## Portfolio Consideration

Each client project is important to us and many showcase our quality of work. After project completion, with client's approval, HB will schedule a photo shoot featuring the recently installed technology.

In some instances, a formal case study will also be written and posted online or appear in HB marketing materials.

All photos will be available to the client upon request.

**Christa McAuliffe Branch Library Community Room A/V Project**
**Capital Budget Proposal FY2019**
*11/13/2017*
*Mark Contois; Alan Mandel*

This is a Capital project proposal to install a permanent audio-visual system in the Community Room of the Christa McAuliffe Branch Library. The amount required for this project is $79,932, of which $9,000 will come from MBLC State Aid, and $70,932 would be sourced from the General Fund/borrowing.

## Overview

When the branch library was built in 2016, it had no budget for audiovisual equipment other than a projection screen. The Community Room has proven to be an enormously popular location for meetings of all types, but the absence of a built-in A/V installation has proven quite troublesome. At the beginning of FY2019, the building will have been open for 29 months; it is time to fill this gap.

To provide patrons and staff with an interim method of hosting presentations, showing films, and amplifying audio, the library assembled a mobile "projector cart." This cart contains a video projector, laptop, Blu-ray player, and speakers. This has been supplemented with various cables, adapters, microphones and other audio-related devices, as well as a basic assistive listening system for hearing-impaired attendees.

The Community Room is heavily-used for A/V purposes; we estimate that approximately 100 such programs[1] (either library-sponsored or for outside groups) have taken place in the first 10 months of 2017. Town/City-sponsored training sessions have also taken place in the Community Room.

The McAuliffe projector cart was intended only as a temporary solution pending the installation of a robust built-in A/V system. The most notable problems with the existing ad-hoc projector cart system include:

- The cart needs to be set up for each event, and stowed securely afterwards. Each step consumes staff time and requires expertise.
- In some cases, the A/V setup is not completely intuitive, so time and care are required. Not all staff have adequate training to set up the cart. Last-second technical problems are common, and suddenly pulling staff from other duties is disruptive, and creates ripple effects elsewhere in the library, ultimately inconveniencing library patrons and detracting from customer service.

[1] See spreadsheet CommunityRoomUsage-2016-2017.xlsx for details on Community Room usage for library-sponsored events and outside groups.

This is particularly troublesome when events take place early or late, when the few staff members present must interrupt both routine and time-critical tasks to tend to unexpected A/V issues.

- The cart must be formally and carefully checked in and checked out to outside groups to foster accountability. This not only takes time, but also creates significant logistical hurdles. When programs end in the evening, the library is typically lightly staffed, often with substitute personnel who have little or no A/V experience. And when an outside group needs to begin their meeting before the library opens, or finishes their meeting after closing time, there is no staff at all to instruct, assist, or monitor usage of the cart.
- The cart has many connections and parts of it are fragile. Patrons or staff who are unfamiliar with it can easily misconfigure the equipment, or even damage it. This has been a particular challenge when outside groups start their meetings early (prior to staff arrival) and take the opportunity to reconfigure the cart.
- The cart must be placed and wired near the center of the room, which subjects it to jostling, poses a tripping hazard, consumes floor space where the audience sits, and creates visual and audible distractions.
- With so much hardware involved, parts can go missing (and have done so). When this happens, or when someone has improperly modified the equipment, the latent problems may not become obvious until a future date … at which point the absence of a necessary device, or the expertise to work around a misconfiguration, could completely torpedo a planned event.
- As the location of the cart is fluid, and as the projector is available for patrons to fiddle with its settings, there is no way to ensure a consistent, high-quality projected image.
- There is no built-in sound recording, amplification, or projection system for voice, musical performances, or films. The audio setup is ad hoc and not of high quality. The speakers on the projector cart may be too loud for attendees sitting next to the cart, and too quiet for patrons in other areas of the room.
- The assistive listening equipment is limited, and should be expanded to support more users.
- We would like to be able to support A/V sessions in multiple meeting rooms at once, but the cart can only be in one location at a time. The Children's Craft Room is a prime target for the cart, however, there is no projection screen in that room.

The McAuliffe branch also needs a set of robust, battery-powered portable speakers suitable for on-location or outdoor events. The Main Library has such a set, but a second set is needed for the branch.

**Process**

The requirements for the proposed system were derived through discussions with McAuliffe staff, in consultation with HB Communications, and were informed by our extensive experience supporting A/V-based programs in the Community Room, as well as numerous events using the built-in A/V system in the Main Library's Costin Room.

**Proposed features**

To substantially mitigate the weaknesses enumerated above, we propose a professionally-installed A/V system with the following guiding principles:

- Staff should be able to use all equipment effectively, with modest training and minimal risk of loss or damage.
- One staff member should be able to set up and initiate a staff-sponsored event with minimal effort, and allow routine events to proceed with minimal or no further action.
- The public should to be able to use many of the room's capabilities without staff oversight or substantial risk of theft/damage. These capabilities include showing disc-based videos, displaying and using a computer whose image is projected on the screen, displaying the contents of mobile devices, playing audio, and using at least 2 wired microphones.

The proposed system, as supported by the analysis and associated quote from HB Communications, Inc., would incorporate the following key features:

- Ceiling-mounted projector
- Overhead "PA System" speakers and surround-sound system
- A publicly-accessible Blu-ray/DVD player
- Always-available, secure, built-in PC which is usable by the public via remote keyboard/mouse/USB
- Wall control panel for input selection, volume control, player controls
- Wall connections for various video and audio sources
- Improved microphone selection and audio mixing capabilities
- Expanded assistive listening options
- Improved security and protection for most equipment
- Better expandability

- Built-in projection screen in the Children's Craft Room
- Set of battery-powered, portable speakers sufficient for events elsewhere in the library, and at outdoor events

**Cost/Funding**

A detailed quote from HB Communications based on the OFF40 State Contract, dated November 8, 2017, is provided under separate cover. The cost for their proposed A/V installation that meets the requirements above is **$79,932**. This quote includes procurement, design, assembly, testing, most installation (see Other Notes below), shipping, staff training, and a 6-month warranty.

We are applying $9,000 from the Massachusetts Board of Library Commissioners State Aid toward this capital project.

**Other Notes**

The existing projector cart will continue to be used even after the implementation of the proposed Capital project. We expect it be used elsewhere in the building, such as the Children's Craft Room. And it will serve as a backup for the new built-in A/V system, when the latter is out of service.

Completing the installation may require physical changes to the McAuliffe Community Room, and are not included in the attached quotes, as some or all of this work may be performed by City personnel. Anticipated changes are:

1. 120V power runs to various locations for A/V equipment (e.g., projector, closet, wall panel(s)).
2. Construction of an enclosure within a wall for the publicly-accessible Blu-ray player.
3. Creating an opening in the wall between the interior of the two closets in the Community Room for cable pass-through.
4. One of the following, to permit A/V connector wiring to be installed in a location that works well with screen and lectern placement:
    a. Knee wall removal and reconstruction; or
    b. Installation of attractive wire molding.

# FY2019 Recommended: Bond $66,038

| | | | |
|---|---|---|---|
| **Project Number:** | Library/Library/2019/B | **Budget Year:** | 2019 |
| **Project Title:** | Main Library Circulation Desk | **Scenario:** | Main 2019 |
| **Asset Type:** | DESKS | **Budget Status:** | Department Request |
| **Department:** | C4-610 - Library | **Regions:** | Precinct 1, Precinct 2, Precinct 3, Precinct 4,... |
| **Project Type:** | Town Non-Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | Jul 2, 2018 | **Project Partner:** | |
| **Est. Completion Date:** | Sep 3, 2018 | | |

## Description:

In order to comply with current ADA standards, create compatibility with our new RFID technology, and streamline service, the Main Library seeks to replace the current main floor circulation desk. The current desk dates from 1979, before the Americans with Disabilities Act became law in 1990 and before computers were used to circulate library material. This desk has been used eight to twelve hours a day for the past forty years.

## Comments:

Replacing the 40 year old circulation desk is critical to meeting the current standards for library service, especially as it pertains to computer centered workstations and emerging technologies. Furthermore, a new desk will result in a reduction of service points, allowing staff to pursue other activities and duties necessary in operating the modern library. Also, and most critical, the new desk ensure we comply with the Americans with Disabilities Act and provide appropriate access to our patrons with disabilities.

The amount required for this project is $66,038.00, of which $7,000 will come from MBLC State Aid, and $59,038.00 would be sourced from the General Fund/borrowing.

## Justification:

Primary reasons for replacement are:
-Accessibility (currently non-compliant with ADA standards)
-Reduction of service points from 3 to 2 made possible because of new desk configuration
-New desk designed and built to accept RFID Technology
-New desk designed to improve patron and staff workflow with RFID security gates
-New desk designed to work in unison with Self-check stations
-Security enhancements will be possible with new desk design:
˜ *Camera access can embedded into new desk
˜ *Cash register can be made less visible and vulnerable
˜ *Lines of sight can be improved to both entrances
-New desk configuration allows for the installation of ergonomic features such as cushioned flooring for staff and appropriate counter heights
-New desk configuration with new book trucks will allow for more efficient workflow such as returns, sorting and re-shelving of library material
-Marketing: Our new desk will have an illuminated display case built into the front to securely market our Library of Things--Roku, Google Home, Amazon Echo, Wifi Hotspots, and portable battery pack chargers, etc.
-The existing desk has served Framingham well for over 40 years and has seen approximately 60 million transactions come across the surface of the desk. The desk is understandably worn (the original color of the laminate is unidentifiable in several places). This, coupled with the rationale above, including the imminent installation of RFID technology makes now the perfect time for replacement.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 66,038 | 0 | 66,038 |
| | **66,038** | **0** | **66,038** |

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www.tuckerlibraryinteriors.com

# QUOTATION

11/6/2017

Mark Contois, Director
Framingham Public Library
746 Water Street
Framingham, MA 01701

Phone: 508-532-5570

Re: Main Branch Circulation Desk- Budget Estimate
Via MHEC Contract #MC11-C07
As per the attached drawings

| Item # | Model #/Description | List Ea. | Qty | Ext. List |
|---|---|---|---|---|
| Desk | Custom circulation desk 274" x 124" with dual height surfaces | 84,390.00 | 1 | $84,390.00 |

Consisting of multiple modules as per the drawings, to provide storage for book carts under the desk.
The desk front shall consist of red oak veneer panels fastened to both curved and flat portions by means of "Stand-Off" #SO-CAP9 buttons.
There shall be one pedestal consisting of 5 drawers, along with 2 modules of adjustable shelves. Also provided with lowered shelf for cash register.
The ADA/Info module shall have a surface at 32"H, and be a bow front design to permit patrons to move a wheelchair under the patron approach.
There shall be a glass front display case at one end 48"E x 24"D x 32"H.
This case will have an access door or doors on the staff side to permit the placement of items on an as needed basis by the staff.
Each module will be supplied with a "sub-top" to support a stone top.
Surface: **Stone top by others**.
Power supplied via Byrne "4-Trac" system: total of (8) duplexes.
This system will provide adequate power for the (3) planned computers.
***4-Trac requires 20 Amp circuit & outlet in floor box.**
*** We assume the Library will provide the proper circuit & outlet. There are (3) locations under the exiting desk where power comes through the floor. Any of the locations will work.**

| | |
|---|---|
| Total List: | $84,390.00 |
| Worden MHEC Contract #MC11-C07 discount: less 55%: | -$46,414.50 |
| MHEC Contract net product price: | $37,975.50 |
| Installation: | $1,575.00 |
| Desk Total **without top** as proposed: | $39,550.50 |

| Alternate: | Model #/Description | List Ea. | Qty | Ext. List |
|---|---|---|---|---|
| 1 | Custom "Alkemi" acrylic desk top for the Circulation Desk | 29,344.00 | 1 | $29,344.00 |

Fabricated at the Worden factory.

| | |
|---|---|
| Total List: | $29,344.00 |
| Worden MHEC Contract #MC11-C07 discount: less 55%: | -$16,139.20 |
| MHEC Contract net product price: | $13,204.80 |
| Installation: | $725.00 |
| Desk **acrylic top Alkemi "Aquarius" 730 carried for estimate**: | $13,929.80 |
| Desk Total **with acrylic top** as proposed: | $53,480.30 |

Framingham Public Library:

| Alternate: | Model #/Description | List Ea. | Qty | Ext. List |
|---|---|---|---|---|
| 2 | SXT-3015-R book trucks with rubber bumpers modified with steel tubes & strapping 36-1/2"H x 30-1/2"W x 14-1/2"D. | 1,699.00 | 16 | $27,184.00 |
| | | Total List: | | $27,184.00 |
| | Worden MHEC Contract #MC11-C07 discount: less 55%: | | | -$14,951.20 |
| | MHEC Contract net product price: | | | $12,232.80 |
| | Installation: | | | $325.00 |
| | Book truck total: | | | $12,557.80 |
| | **Project Total with Alternates 1 & 2 combined:** | | | $66,038.10 |

All prices are net, delivered, and installed during normal working hours by non-union installers.
Worden lead time is 16-20 weeks upon receipt of order and all approvals.
Shop drawings will be provided for your approval prior to fabrication.
*Alkemi "Aquarius" 730 is believed to be the surface of the circulation desk at the McAuliffe Branch.
Any significant design changes will require the desk to be re-quoted.
*This quote assumes that the Library will remove the existing desk prior to the delievery of the new desk.

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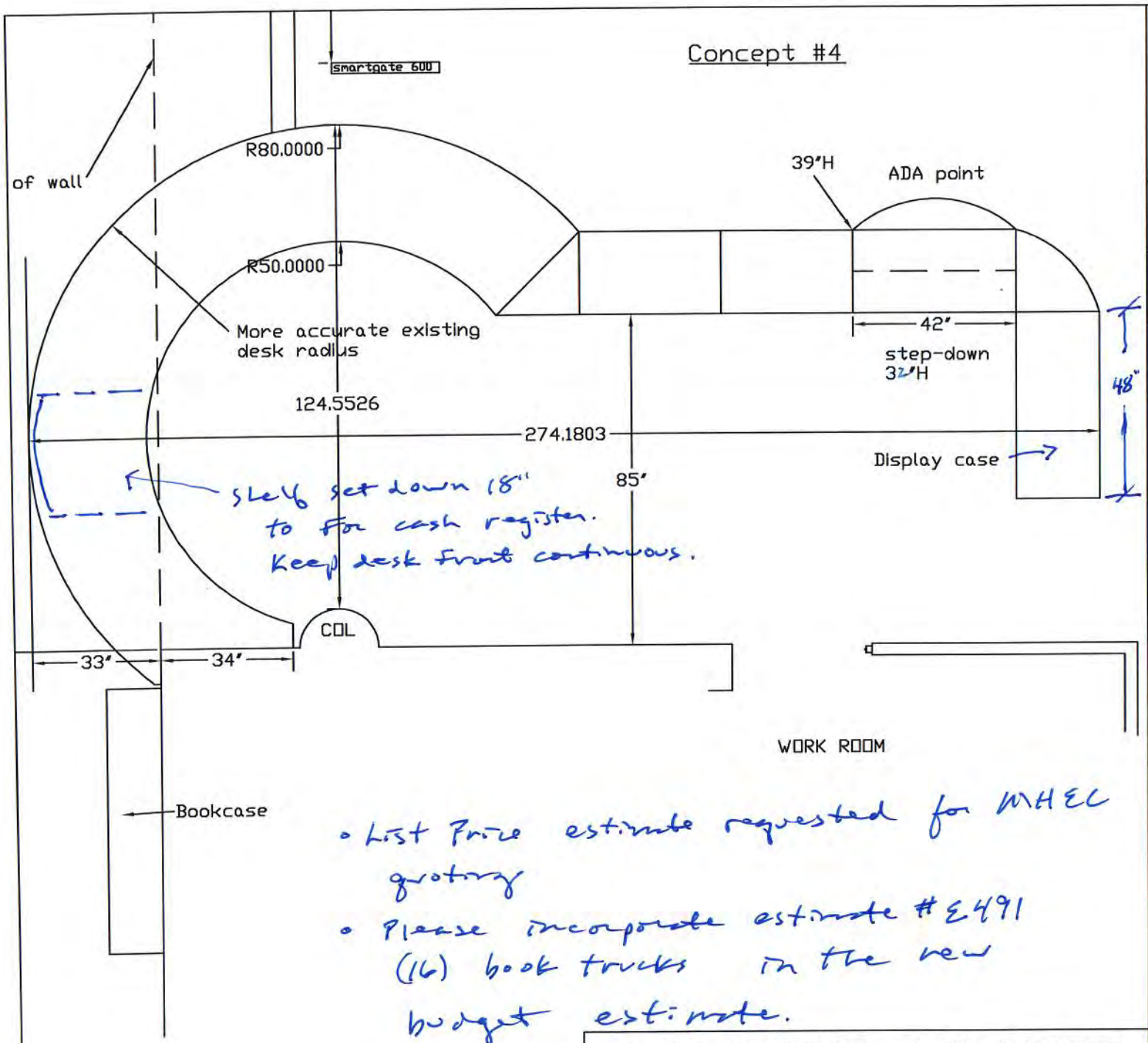
Prices are firm for acceptance for 30 days, subject to reconfirmation thereafter. PAYMENT TERMS: NET 15 DAYS. Deliveries are subject to delays from fire, strikes, or other causes beyond our control. Tucker Library Interiors, L.L.C. assumes no liability for delay due to causes beyond its control.

Accepted By:_____ By: Chip Hagy

Title:_____ Title: Sales Consultant




Framingham Public Library

Date: 11-1-17

Scale:

Revisions:

Notes:

Tucker Library Interiors, LLC

55 So Commercial St
Manchester, NH 03101
T: 603-666-7030
F: 603-666-7032

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Sheet 1

Framingham PL

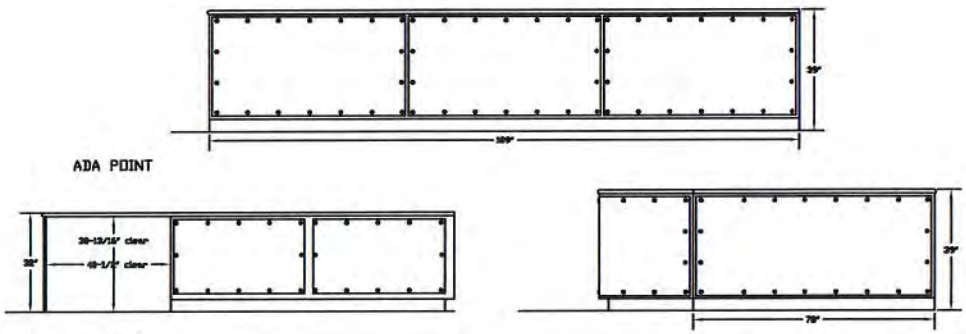
Date: 11-1-17

Scale:

Revisions:

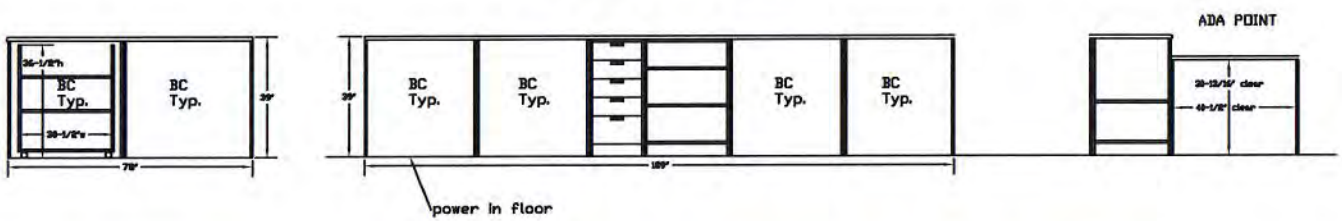
Notes:

Proposed Circulation Area
Patron Approach




Notes:
1. Desk front with red oak veneer panels ¼"T, fastened to chassis by means of 'Stand-Off' #SO-CAP9 1"dia x ⅜", on both curved & flat surfaces..
2. Open modules on staff elevations to accommdate existing book carts 30-½"W x 14"D x 36-½"H (denoted as 'BC TYP' in Staff Elevation.
3. One module with 5 drawers.
4. Two modules of adjustable shelving.
5. ADA Point with interior panel set back 18" from patron approach.
6. Provide '4-Trak' power distribution elements for (3) computers, with 20 AMP plug-in power feed, jumpers, and (8) duplex outlets.

Proposed Circulation Area
Staff Elevation




Option #1: chassis only: stone top by others

Add Alternate: chassis with acrylic top provided by Worden. Carry Alkemi types for budgeting. Can revise in the Future

⊕ carry cost to CNC 5 grommets – size TBD

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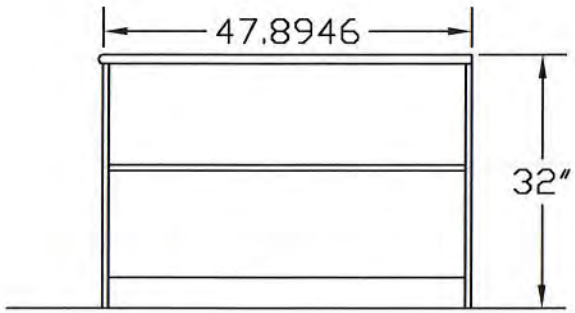
Sheet 2

# Display Case
## Patron Approach




Notes:

glass front display case with tempered glass. Access door(s) in back panel, to be accessed from staff side

Framingham PL

Date: 11-1-11

Scale:

Revisions:

Notes:

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Sheet 3

# FY2019 Recommended: Bond $395,055

| | | | |
|---|---|---|---|
| **Project Number:** | PARK/ParkRec/2019/E | **Budget Year:** | 2019 |
| **Project Title:** | Mary Dennison Park Improvements | **Scenario:** | Main 2019 |
| **Asset Type:** | PARKS | **Budget Status:** | Department Request |
| **Department:** | C4-650 - Parks & Recreation | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2014 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

95% Final Park Project Design and Environmental Testing/Remediation Design

## Comments:

## Justification:

The City of Framingham has been working in cooperation with the state environmental agency (Massachusetts Department of Environmental Protection, MassDEP) and former property owner, Avery Dennison Corporation of Pasadena, CA, formerly known as Dennison Manufacturing Company, to conduct required testing at the park and to create an appropriate remediation plan to address the environmental concerns at Mary Dennison Park. Parks & Recreation has been limited in moving forward on the new park redesign, since the re-design of the park must be developed in conjunction with an appropriate environmental remediation plan. We anticipate that the remediation plan could be developed during the next fiscal year, although an in-depth (100%) design will likely take longer. Also, some additional testing of the park's adjacent properties is required and is currently in process. Therefore, this appropriation request includes funding for both park re-design steps as well as further testing and environmental cleanup planning.

Prior Town Meeting appropriations have allowed us to complete the environmental testing of the park property itself and to perform short-term remediation, primarily of the eastern playground area; the rest of the park has remained open for its existing uses. This remediation allowed the Parks Department to temporarily re-open the eastern playground for public use until the long-term remediation plan is implemented.

Our Department has conducted public meetings to assist in defining and incorporating the neighborhood's vision for a re-designed park as well as regular project updates to the community. In this next phase, the preliminary design/design development plans for the park will be developed along with the environmental remediation design plans.

The FY 2019 Capital funding request for this project will enable the City to begin the 95% Final Project Park and Environmental Feasibility Study/Remediation Design. The identified funding request and projected timeline is a budget estimate based on current available information and is subject to change as additional information becomes available.

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 395,055 | 0 | 395,055 |
| | **395,055** | **0** | **395,055** |

****DRAFT Mary Dennison Park Preliminary Project Sequence/Cost Opinion DRAFT** Revised November 2017 (Original April 2015)**

| Project Phase | Activity | MCP Assess/Plan | Park Design | Stream/ Storm Design | Approx. Duration | Anticipated Timing |
|---|---|---|---|---|---|---|
| ~~Environmental Assessment Completion~~ | ~~Groundwater and Stream Sampling (3 events)~~ | | | | ~~4-8 months~~ | ~~April to November 2015~~ |
| | ~~Immediate Response Action (IRA) Excavations and Completion Reports~~ | | Completed | | | |
| | ~~Pre-Remedy/Post-IRA Human Health and Eco Risk Assessment~~ | | | | | |
| | ~~Phase II Comprehensive Site Assessment Report~~ | | | | | |
| Environmental Assessment | Off-property Site Assessment | $100,000 | | | 1-2 months | November to February 2018 |
| Data Gathering and Project Initiation | Wetland Delineation and Land Surveying | | $10,000 | $12,000 | 2-3 months | December 2017 to February 2018 |
| ***Regulatory Consultation*** | U.S. Army Corps of Engineers 404 | | | $3,000 | 1-2 months | December 2017 to May 2018 |
| | MassDEP Bureau of Waste Site Cleanup | | $3,000 | | | |
| | MassDEP Water Resources (Wetlands, NPDES, Water Quality Cert., Waterways Permit) | | | $3,000 | | |
| | Massachusetts Environmental Policy Act Office | | | $3,000 | | |
| | Town Conservation Commission | | $3,000 | | | |
| | Town Planning & Zoning | | | $3,000 | | |
| ~~Conceptual Project Design~~ | ~~Charrette – Public engagement and informational meeting~~ | | | | ~~2-4 months~~ | ~~September to December 2015~~ |
| | ~~Hydro, Hydraulic, and Stream Geomorphic Design Invest.~~ | | | | | |
| | ~~Conceptual Site and Stream Design~~ | | Completed | | | |
| | ~~Order of Magnitude Opinion of Construction Cost~~ | | | | | |
| | ~~Public Informational Meeting~~ | | | | | |
| 95% Final Project Design | Hydro, Hydraulic, and Stream Geomorphic Design | | | $10,000 | 2-4 months | January to December 2018 |
| | Stream Design | | | $25,000 | | |
| | 95% Site Park Design | | $250,000 | | | |
| | Prelim. Opinion of Construction Cost | $25,000 | $10,000 | | | |
| | Environmental Remediation Phase III Feasibility Study/Select remedy | $50,000 | | | | |
| | 95% Phase IV Remedy Implementation Plan | $120,000 | | | | |

****DRAFT Mary Dennison Park Preliminary Project Sequence/Cost Opinion DRAFT****
**Revised November 2017 (Original April 2015)**

| Project Phase | Activity | MCP Assess/Plan | Park Design | Stream/ Storm Design | Approx. Duration | Anticipated Timing |
|---|---|---|---|---|---|---|
| ***Project Permitting*** | U.S. Army Corps of Engineers | | | $15,000 | 6-8 months (2-3 months for permit preparation; anticipated 4-5 months for regulator review and comment-response) | January to July 2018 |
| | MassDEP Water Resources (Wetlands, NPDES, Water Quality Cert., Waterways Permit) | | | $40,000 | | |
| | Town Conservation Commission | | $10,000 | | | |
| | Town Planning & Zoning | | $5,000 | | | |
| 100% Final Project Design | Final Site and Stream Design | To be determined | | | 3-5 months | January to May 2018 |
| | Final Opinion of Construction of Cost | | | | | |
| | Final Park Design | | | | | |
| ***Bidding and Procurement*** | Bid Documents, Specifications, Project Manual | To be determined | | | 1-3 months | June to July 2018 |
| | Advertisement and Request for Proposals | | | | | |
| | Bid Review and Award | | | | | |
| Construction | Earthwork and Cap Construction | To be determined | | | 8-10 months | Fall 2018 to 2020 |
| | Stream and Park Construction | | | | | |
| | Landscape Architecture and Landscaping | | | | | |
| Project Completion | Permit Closure Documentation | To be determined | | | 1-3 months | 2020 |
| | As-Built Survey | | | | | |
| | Post-Remedy Human Health and Eco Risk Assessment | | | | | |
| | Permanent Solution Report | | | | | |
| | Activity and Use Limitation/Soil Management Plan | | | | | |
| | Stream Restoration Evaluation and Report | | | | | |
| Estimated Total | | $295,000 | $311,000 | $114,000 | | $720,000 |
| Add 15% Contingency | | | | | | $108,000 |
| **Estimated Total - 95% Final Project Park and Environmental Remediation Design** | | | | | | **$828,000** |

| | |
|---|---|
| FY 2016 Appropriation Balance Available | $432,945 |
| Less Estimated Total - 95% Final Design | $828,000 |
| **FY 2019 Capital Request - 95% Final Project Park and Environmental Remediation Design** | **($395,055)** |

**Assumptions:**

All costs in 2017 dollars

95% Park design includes one additional community meeting/charrette

One round of comments and two meetings with each reg. agency included (Subject to variation depending upon permitting agencies).

No bond or off-site remediation costs included

No litigation support or expert testimony included

Winter conditions assumed to be appropriate for outdoor tasks

Does not account for potential project delays or cost sharing associated with involvement of outside Potentially Responsible Party.

# FY2019 Recommended: Bond $41,340

| | | | |
|---|---|---|---|
| **Project Number:** | PARK/ParkRec/2019/F | **Budget Year:** | 2019 |
| **Project Title:** | Butterworth Park Phase VI - Basketball Court Relocation | **Scenario:** | Main 2019 |
| **Asset Type:** | | **Budget Status:** | Department Request |
| **Department:** | C4-650 - Parks & Recreation | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This project is a continuation of a multi-phase improvement plan for Butterworth Park. Completion of this project will continue to accomplish important identified improvements to this valued neighborhood Park.

## Comments:

## Justification:

The present phase of the Butterworth Park improvement plan consists of relocation of the current full basketball court to a more appropriate location within the facility. In a prior improvement phase, the Parks Department received funding for the removal of a failing concrete bleacher structure that provided spectator seating along the baseball diamond. Once this structure was removed the basketball court was exposed to a potential foul ball hazard. To mitigate this concern, the Parks Department is proposing relocation of the full sized court and returning the current location back to green space.

The new court will be relocated parallel to Grant Street in the current location of the aging half-court basketball court. This will require grinding and removal of the current full sized basketball court. This area will then be returned to green space, further beautifying the park and adding an additional location for families to recreate. The half-court will then be removed and a new full sized court will be constructed in its place. Finally, an accessible pathway will be built leading to the new court from the existing interior park pathway.

This improvement project is Phase VI in the Butterworth Park improvement plan. Prior Park Improvement Phases include:

• Phase I – Construction of a new internal parking lot and formalization of perimeter parking along Arthur Street.
• Phase II – Installation of lighting at tennis courts.
• Phase III – Removal of old concrete bleacher structure and installation of new ADA seating at baseball diamond.
• Phase IV – Installation of accessible interior park pathway and reconfiguration of Grant Street entrance to park.
• Phase V – Installation of shade shelter at playground (ongoing)

The Parks Department's mission statement it "to create recreation opportunities, preserve open space, manage public athletic fields and parks, and administer recreation programs and facilities for the varied population of Framingham." Neighborhood parks are essential in providing safe space for the community to gather. These proposed improvements to Butterworth Park continue our effort to further our mission statement as well as to provide a neighborhood park that residents can be proud of.

In an effort to continue in our mission to provide a safe and well maintained park that the Butterworth neighborhood can feel proud of, the Division of Parks, Recreation & Cultural Affairs respectfully requests funding for this Phase VI park improvement request.

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 41,340 | 0 | 41,340 |
| | **41,340** | **0** | **41,340** |

| Priority 6 - Butterworth Phase VI Improvements | | | | |
|---|---|---|---|---|
| Basketball Court Removal and Relocation | | $ 22,750.00 | | |
| Reclaim existing court | | | | |
| Strip and stack loam | | | | |
| Install reclaim base for new court | | | | |
| Fine grade and compaction | | | | |
| Pave with 1.5" of asphalt binder course | | | | |
| Pave with 1.5" of asphalt top course | | | | |
| Loam and seed distrubed areas | | | | |
| Removal and re-installation of Basketball Standards | | $ 2,000.00 | | |
| Paving of Pathway Connection | | $ 5,000.00 | | |
| Sealcoating of new Basketball Court (4,700 sq. ft.) | $1/Sq. Ft. | $ 4,700.00 | | |
| **Construction Sub Total** | | **$ 34,450.00** | | |
| 10% Design &Engineering Contingency | *$3,445.00* | | | |
| 10% Construction Contingency | *$3,445.00* | | | |
| **Estimated General Fund Project Total** | | **$ 41,340.00** | | |

Removal and installation quote provided by Newport Construction, 11-7-2017
Sealcoating quote provided by East Coast Sealcoating, 11-7-2017
Removal and re-installation of Basektball Standards provided by McKeown Masonry, 11-9-2017

Received 11-7-2017

NEWPORT

**Proposal for Basketball court at Butterworth Park (approx. 110' x 55'):**

- **Reclaim existing court and save material to use as base for new court.**
- **Strip and Stack Loam for new court location.**
- **Install reclaim base from old court on new area. Fine Grade and Compact**
- **Pave with 1.5" of asphalt binder course**
- **Pave with 1.5" of asphalt top course**
- **Spread loam in area of old court and around areas effected by excavation and Hydroseed.**

**Lump Sum Total: $22,750.00**

Estimated by: Anthony J Barrile

| EAST COAST SEALCOATING QUOTE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Sealcoating | | | | Crack Repair | | | | Total Cost for Both |
| Location | Square Feet | Cost per square foot | Cost | | Linear Feet | Cost per Linear foot | Cost | Comments | |
| New Court at Butterworth | 4,750 | 1.00 | $4,750 | | | | $0 | | $4,750 |
| | | | | | | | $0 | | $0 |
| | | | | | | | $0 | | $0 |
| | | | | | | | | | $0 |
| | | | | | | | | | |
| Totals | **4,750** | | **$4,750** | | **0** | | **$0** | | **$4,750** |
| | | | | | | | | | |
| Provided by East Coast Sealcoating on November 8, 2017 | | | | | | | | | |

McKEOWN MASONRY INC.
47 Pinewood Drive
Framingham, Massachusetts 01701
(978) 568-0255
FAX (978) 568-0266

| | | |
|---|---|---|
| FROM: | Mark McKeown | Cell (774) 244-0495 |
| TO: | Attn Chris McGinty<br>Framingham Parks and Recreation | Tel 508 294-1419<br>Fax 508 872-2591 |
| RE: | Butterworth Park | |
| DATE: | November 9, 2017 | |

McKeown Masonry Inc. proposes to furnish all stock, labor, scaffolding and equipment for the following:

- Install two basketball standards in concrete footings.

Note: standards to be provided by City of Framingham.

Contract Price $2,000.00

# District 7 - Butterworth Park Phase VI Improvements
# Basketball Court Relocation

# Recent Improvements

- Tennis Court Lighting Installation and Accessible Playground Installation;
- Removal of Concrete Bleacher Structure and installation of new seating at Baseball Field;
- Installation of Accessible Interior Pathway and reconfiguration of Grant Street Entrance;
- Shade Shelter Installation at Playground (ongoing);

# Current Conditions

Proximity to Park Pathway Creating Potential Safety Concern to Pedestrian Traffic

Within Foul Ball Line of Baseball Diamond Creating Potential Safety Concern

# Proposed Project

Removal of Current Court, Returning Area Back To Green Space

Removal of Current Half Court, Installation of New, Full Basketball Court

# FY2019 Recommended: Bond $49,140

| | | | |
|---|---|---|---|
| **Project Number:** | PARK/ParkRec/2019/A | **Budget Year:** | 2019 |
| **Project Title:** | F350 4x4 Crew Cab Pickup 10,000 GVW | **Scenario:** | Main 2019 |
| **Asset Type:** | PICK UP TRUCKS | **Budget Status:** | Department Request |
| **Department:** | C7-650 - Parks & Recreation | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2009 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

These funds will be used to purchase a F350 4x4 Crew Cab Pickup Truck to replace a 2001 Ford F350 4x4 Regular Cab Pickup Truck with 79,723 miles, equating to 119,585 engine miles.

## Comments:

## Justification:

The Parks Maintenance Department has a limited amount of vehicles within its fleet to support the operational demands. This vehicle, listed within our fleet as Truck 3, is a F350 4x4 Crew Cab Pickup truck used to transport staff on a limited basis. Due to its current condition, this vehicle is no longer used to transport equipment and has greatly decreased its capabilities to serve within the fleet.

In the past calendar year, this vehicle has undergone numerous repairs in order to pass State Inspection. These repairs have included the replacement of ball joints, and replacement of the shifter cable. Over the past year, Truck 3 has sustained additional rust damage that has required minor body work repairs in an effort to stabilize the vehicle for usage. These repairs have included work to the bed mounts, wheel wells, and front bumper. Due to the age and continued (while limited), usage of Truck 3, we anticipate this vehicle will continue to deteriorate, further limiting its usefulness. In addition, the current condition and continued deterioration of Truck 3 prevent the vehicle from passing State vehicle inspection next year. Those repairs include, but are not limited to:

• Replacement of both sets of rear springs;
• Replacement of rusted, leaking oil pan and rear main engine seal that requires removal of the engine and transmission;
• Replacement of shocks;
• Replacement of rotted break lines;

After 17 years of operational service, the overall physical and mechanical condition of the vehicle is significantly degraded, requiring replacement.

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 49,140 | 0 | 49,140 |
| | **49,140** | **0** | **49,140** |

| 2018 F350 CREW CAB PICKUP TRUCK | |
|---|---|
| Estimate from MHQ, October, 2017 | $44,673.00 |
| **Sub Total** | |
| 10% Estimated Cost Escalation for FY18 Contract | $4,467.30 |
| | |
| **Total** | **$49,140.30** |

Price per quote from Greg Keith, MHQ
* Price Escalation due to anticipated 2018 contract

# Framingham
# Parks and Recreation Department

**475 Union Avenue · 508 532 5960**

## Memorandum

**From the desk of Donald Capen**

November 4, 2017

**RE: Capital Budget Vehicle Replacement – 2001 Ford F350 4x4 Regular Cab Pickup**

Chris,

As requested, the following is a description of the current issues with the 2001 Ford F350 4x4 Regular Cab Pickup. Currently, this vehicle has 79,723 miles on the odometer.

Due to its current condition, this vehicle is no longer used to transport equipment and has greatly decreased its capabilities to serve within the fleet. Current issues requiring attention, labor and expense are:

- Replacement of both sets of rear springs;
- Replacement of rusted, leaking oil pan and rear main engine seal that requires removal of the engine and transmission;
- Replacement of shocks;
- Replacement of rotted break lines;

In the past calendar year, this vehicle has undergone numerous repairs in order to pass State Inspection. These repairs have included the replacement of ball joints, and replacement of the shifter cable. Over the past year, Truck 3 has sustained additional rust damage that has required minor body work repairs in an effort to stabilize the vehicle for usage.

After 17 years of operational service, the overall physical and mechanical condition of the vehicle is significantly degraded. Based on an overall assessment of the vehicle, I believe it has reached its useful life expectancy and would recommend replacement.

Regards,

Donald Capen
Mechanic

PARKS
TOWN OF FRAMINGHAM, MA
& RECREATION

MHQ
VEHICLES ■ EQUIPMENT ■ GEAR

# QUOTE

## CUSTOMER

| | | | |
|---|---|---|---|
| Contact Name: | Town of Framingham | Date: | 10/31/2017 |
| Company/Dept: | Parks Department | Valid for: | 60 Days* |
| Street Address: | 475 Union Ave | Customer #: | 10142 |
| City, State, Zip: | Framingham, MA 01702 | Contract: | GBPC/Bapern 2015 |
| Phone: | 508-532-5960 | Sales Rep: | GAK |
| E-Mail: | cam@framinghamma.gov | | |

| CONTRACT LINE REFERENCE | LINE DESCRIPTION | UNIT PRICE | QTY. | EXTENDED PRICE |
|---|---|---|---|---|
| | | | | $0.00 |
| W3B | 2018 F350 4X4 Crew Cab Pickup 11,200 GVWR | $31,790.00 | 1 | $31,790.00 |
| | 8' Pickup bed for Crew Cab | $189.00 | 1 | $189.00 |
| 99T | 6.7 LITER POWER STROKE DIESEL ENGINE | $8,725.00 | 1 | $8,725.00 |
| SP101 | SVO Paint: Green Gem | $601.00 | 1 | $601.00 |
| | Trailer tow package | included | | |
| | Automatic Transmission | included | | |
| | HD vinyl bench seat, HD vinyl flooring, Air conditioning and spare tir | included | | |
| | AM/FM radio with digital clock & four upfitter switches | included | | |
| 66S | (6) Upfitter switches | $160.00 | 1 | $160.00 |
| 52B | Electronic trailer brake controller | $261.00 | 1 | $261.00 |
| 473 | Snow plow prep package | $79.00 | 1 | $79.00 |
| 41H | Engine block heater | $87.00 | 1 | $87.00 |
| 213 | Electronic shift on the fly four wheel drive | included | | |
| 18B | Black Molded Running Boards, Crew Cab | $431.00 | 1 | $431.00 |
| 3.10 | Whelen (4) LED Vertex hideaway system | $455.00 | 1 | $455.00 |
| 1.08 | Whelen L31HAF Super LED beacon | $420.00 | 1 | $420.00 |
| 22.16 | Slide in pintle/ball combination hitch for receiver | $135.00 | 1 | $135.00 |
| 22.10 | Diamond Plate Aluminum crossbody tool box | $795.00 | 1 | $795.00 |
| 22.02 | Rhino Coat bedliner, spray on (pickup bed) | $545.00 | 1 | $545.00 |
| 8.08 | Motorola CDM1250, 64 channel, Alpha display, 45 Watt, VHF High Band front mount radio frequency range136-174 MHz model # AAM25KKD9AA2 | | 1 | |
| | | | | $0.00 |
| | | | TAX: | |
| | | | TOTAL: | **$44,673.00** |

## TERMS AND CONDITIONS

*This quote is valid for 60 days from the date of quote. Any purchase orders or approved quotes received outside of the 60 day quote period will be subject to price adjustments. By signing this quote, the customer is agreeing to pay, in full, for all items listed above. Any requests for changes, modifications, replacements, removals or additional items may be subject to additional fees and/or adjusted delivery dates.

M.G.L c. 30B applies to the procurement of all commodities quoted. Contract items have been collectively purchased pursuant to M.G.L c 30B sec 1c and M.G.L c.7 sec 22B. The government body is responsible to determine the applicibility of M.G.L. c30B to off contract items, but not limited to, off contract items that have already been properly procured under M.G.L. c30B sec 1c and M.G.L. c7 sec 22A (purchases from a vendor on contract with the Commonwealth), other contracts procured under M.G.L. c30B sec 1c and M.G.L. c. 30B contract between the vendor and the jurisdiction. All off contract items must be proccured under M.G.L. c. 30B.

The terms and conditions stated herein and the provisions of any agreement between MHQ and Buyer, if applicable, shall constitute the complete and only terms and conditions applicable to any and all purchases by Buyer from MHQ. Any additional and/or different terms and/or conditions printed anywhere including on, or with, Buyer's order shall be inapplicable in regard to any purchase by Buyer from MHQ.

## ORDER ACKNOWLEDGEMENT

By signing this document you are agreeing to the above terms and conditions of this order from MHQ, Inc.

x

PRINT NAME

x

TITLE

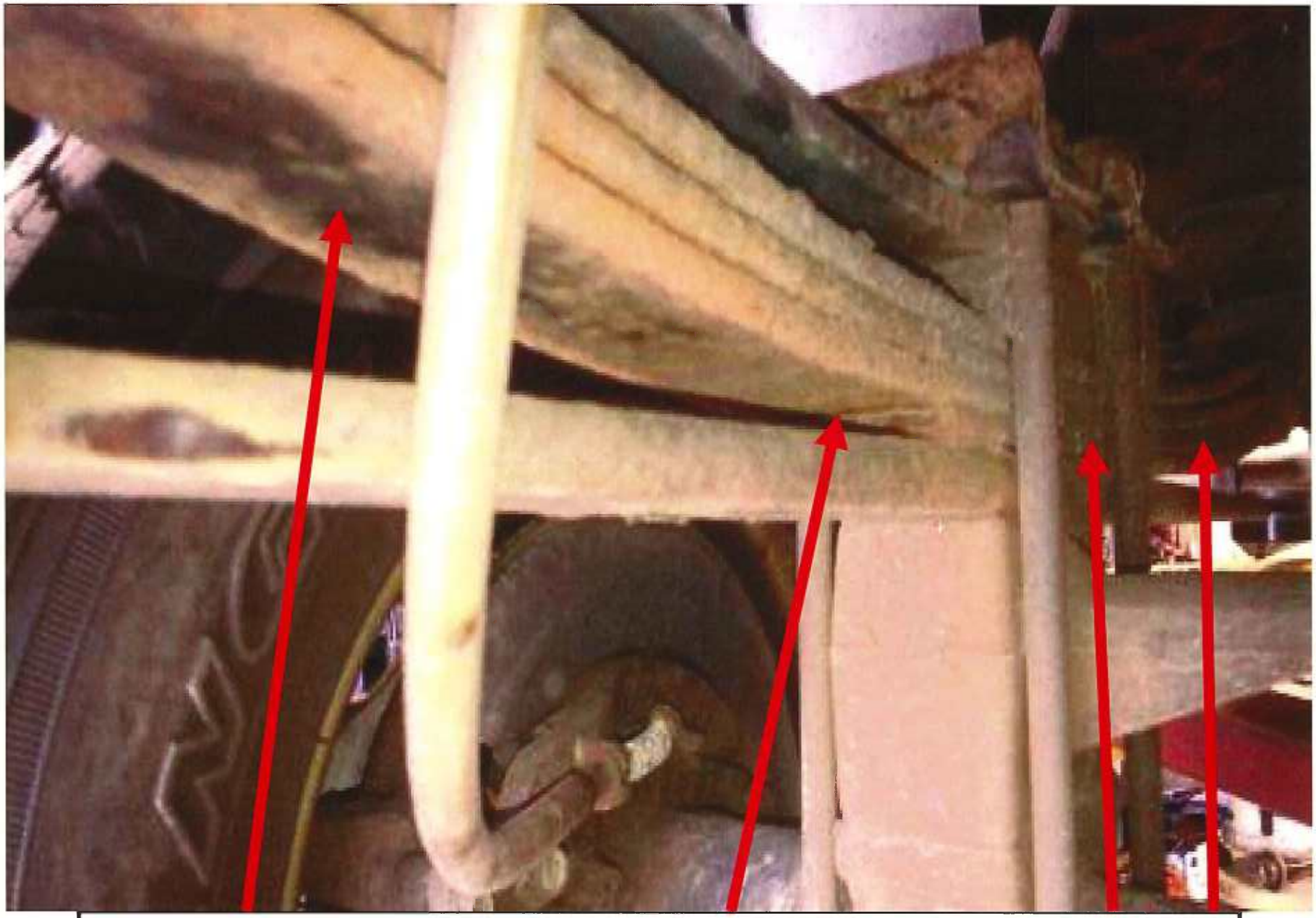
x

SIGNATURE

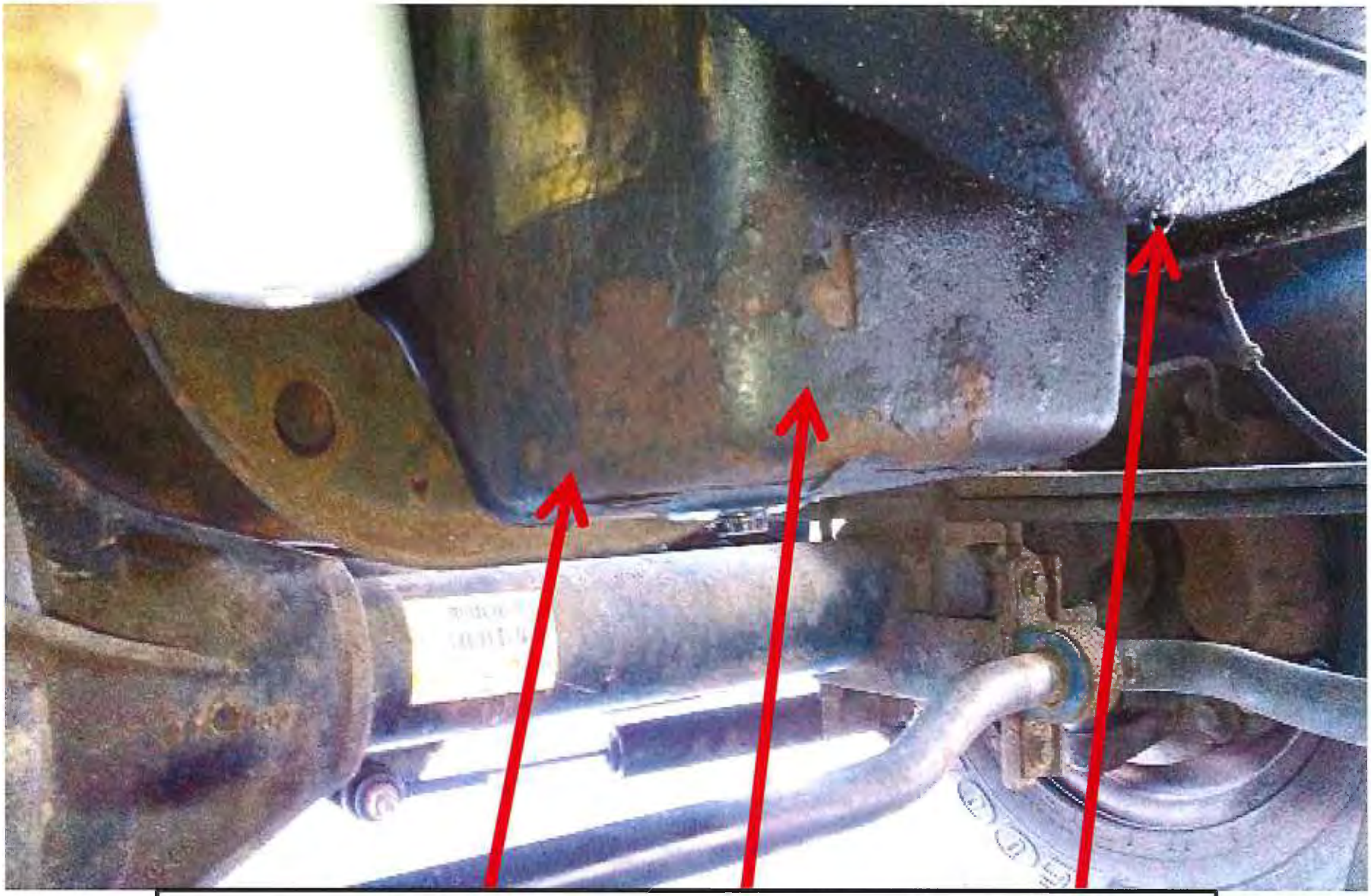
Quote provided by Greg Keith, Key Accounts Manager at MHQ
(508) 954-2225 or gkeith@mhq.com

# 2001 F350 Regular Cab Pickup

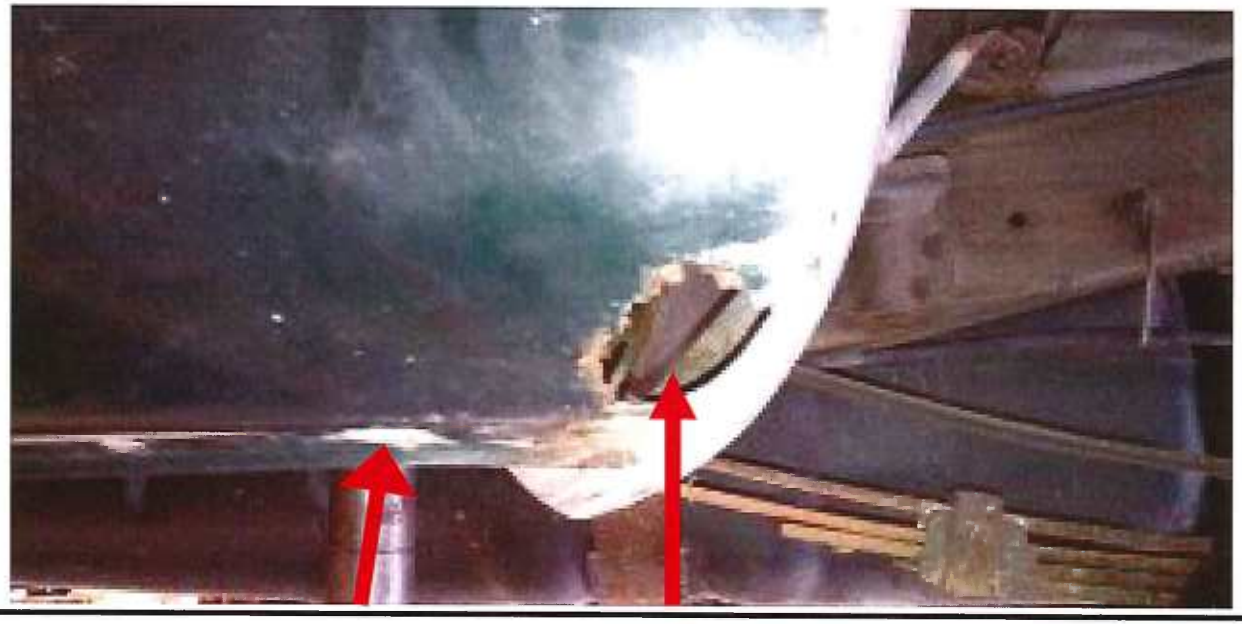
Choose FRAMINGHAM



Damaged rear springs that require full replacement



Rust damage and leakage to oil tank and rear main seal, requiring removal of engine and transmission to repair



Rust damage and perforation to truck bed and front bumper, requiring replacement

Rust damage and perforation to truck bed mount,
creating load instability

# FY2019 Recommended: Free Cash $250,000

| | | | |
|---|---|---|---|
| **Project Number:** | FPS/B&G/2019/A/Request | **Budget Year:** | 2019 |
| **Project Title:** | Technology Upgrades Throughout the District FY19 | **Scenario:** | Main 2019 |
| **Asset Type:** | SCHOOL BUILDINGS | **Budget Status:** | Department Request |
| **Department:** | C3-971 - Building & Grounds Department | **Regions:** | |
| **Project Type:** | School Technology Software | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | July 1, 2018 | **Project Partner:** | |
| **Est. Completion Date:** | June 30, 2019 | | |

## Description:

Technology Upgrades Throughout the District Tech

## Comments:

The Office of Technology is requesting funds to continue to move forward with the District Technology Plan. The goal of the plan is to provide a strong and dependable infrastructure as well as appropriate devices to support an advanced learning environment for the 21st century student and educator. The Office's intent is to lead and collaborate with students, staff and district administration to meet both instructional and administrative goals of teaching and learning district-wide. These funds are also being requested to refresh aged staff laptops over 4 years old, and upgrade to a high-performance network using current technology.

## Justification:

Capital Technology - Justification

The Office of Technology is responsible for providing a technical foundation and vision to support the advance learning environment of the 21st century student and educator. The intent is to lead and collaborate across the spectrum of students, staff and district administration to meet both instructional and administrative goals of teaching and learning district-wide. Framingham Public Schools will continue to invest in technology throughout the district with a focus on student and staff needs.

Chromebooks
The Framingham Public School district has made an initial investment in the use of Google based Chromebook in the classroom. Chromebooks are low cost keyboard based solution for putting technology into the student's hands and integrates directly with the district's investment in Google Apps for Education. The Google WebApp store offers a wide selection of free and paid-for apps spanning educational and business categories. The district's goal is to ensure that every student has access to technology and online resources. This request is to support the continued deployment and refresh of devices in the classroom in an equitable manner. Devices will be distributed based on a student ratio and the school's commitment to enhancing their digital curriculum.

Staff Laptops
The Framingham Public School District must continue to invest in tools to assist staff within the classroom and learning environment. The average lifespan of these devices, stated by the vendor is 5 years. The district has distributed devices starting in 2010 but has not established a replenishment process to replace the depreciated devices. The Office of Technology has developed a schedule to replace 25% of the staff laptops each year over the next 4 years. The investment to staff devices should be viewed as a re-occurring cost.

Classroom Projectors
Each classroom the district has been equipped over the years with technology to support the learning environment. LCD projectors are useful in presenting and sharing in a group environment. Current LCD projectors are aging and many within the district are reaching 10 years. This investment is intended to replenish 15% of the aged staff/classroom tools.

School Library Technology Upgrades
The Framingham Public School District continues to develop and support the Framingham Public Schools Library program. The impact an effective 21st century library can have on students, teachers, and administrators is unquestionable. A well-functioning library is the nexus of the school, supporting teachers and positively impacting student learning, information literacy, and achievement; and helps promote positive digital citizenship. Each School Library has requested upgrades in the technology needed to create and operate an environment focused on research. This investment will continue to provide seamless access to digital resources, integrate technology into the curriculum of the Framingham Public School district, and to assist the learning community through efficient processes and training.

# FY2019 Recommended: Free Cash $250,000

**Project Forecast**

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 250,000 | 0 | 250,000 |
| | **250,000** | **0** | **250,000** |

## 1. Technology Upgrades District-Wide

**FY19:**

The Office of Technology is requesting funds to continue to move forward with the District Technology Plan. The goal of the plan is to provide a strong and dependable infrastructure as well as appropriate devices to support an advanced learning environment for the 21st century student and educator. The Office's intent is to lead and collaborate with students, staff and district administration to meet both instructional and administrative goals of teaching and learning district-wide. These funds are also being requested to refresh aged staff laptops over 4 years old, and upgrade to a high-performance network using current technology.

**$ 350,000**

**The office of Technology will be providing detailed back up information for this request prior to submission to the CFO.**

# Framingham Public Schools

**Robert A. Tremblay, Ed.D., Superintendent of Schools**

**OFFICE OF TECHNOLOGY**
**Mr. George Carpenter, Director**
**Mr. David Heistand, Assistant Director**
115 A Street, Framingham, MA. 01701
Telephone: 508-424-3413, Option #2


**RE: Technology Capital Request FY 2019**

## Capital Technology - Justification

The Office of Technology is responsible for providing a technical foundation and vision to support the advance learning environment of the 21st century student and educator. The intent is to lead and collaborate across the spectrum of students, staff and district administration to meet both instructional and administrative goals of teaching and learning district-wide.

Framingham Public Schools will continue to invest in technology throughout the district with a focus on student and staff needs.

## Chromebooks

The Framingham Public School district has made an initial investment in the use of Google based Chromebook in the classroom. Chromebooks are low cost keyboard based solution for putting technology into the student's hands and integrates directly with the district's investment in Google Apps for Education. The Google WebApp store offers a wide selection of free and paid-for apps spanning educational and business categories. The district's goal is to ensure that every student has access to technology and online resources. This request is to support the continued deployment and refresh of devices in the classroom in an equitable manner. Google has stated that the useful lifecycle of a Chromebook is 5 years.

Devices purchased will be replace damaged and retired equipment

## Staff Laptops

The Framingham Public School District must continue to invest in tools to assist staff within the classroom and learning environment. The average lifespan of these devices, stated by the vendor is 5 years. The district has distributed devices starting in 2010 but has not established a replenishment process to replace the depreciated devices. The Office of Technology has developed a schedule to replace 20% of the staff laptops each year over the next 5 years. The investment to staff devices should be viewed as a re-occurring cost as the average lifespan of a laptop is 5 years.

## Classroom Projectors

Each classroom the district has been equipped over the years with technology to support the learning environment. LCD projectors are useful in presenting and sharing in a group environment. Current LCD projectors are aging and many within the district are reaching 10 years. This investment is intended to replenish 15% of the aged staff/classroom tools

## School Library Technology Upgrades

The Framingham Public School District continues to develop and support the Framingham Public Schools Library program. The impact an effective 21st century library can have on students, teachers, and administrators is unquestionable. A well-functioning library is the nexus of the school, supporting teachers and positively impacting student learning, information literacy, and achievement; and helps promote positive digital citizenship. Each School Library has requested upgrades in the technology needed to create and operate an environment focused on research. This investment will continue to provide seamless access to digital resources, integrate technology into the curriculum of the Framingham Public School district, and to assist the learning community through efficient processes and training

| 2019 Capital Funding Request | | | | | |
|---|---|---|---|---|---|
| | Project | Category | Qty | Unit Cost | Total |
| 1 | School Library Technology Upgrades | Learning Space | 1 | $20,000.00 | 20,000.00 |
| 2 | Classroom Projectors | Teacher Classroom Tools | 70 | 509 | 35,630.00 |
| 3 | Staff Laptops | Teacher Classroom Tools | 220 | 815 | 179,300.00 |
| 4 | Student Chromebooks | Student Learning Devices | 500 | 229.5 | 114,750.00 |
| | | | | Total | **$349,680.00** |

## FY20-FY26

$500,000 every year to refresh, replace and update infrastructure and expand technology educational tools.

# A quote for your consideration!

Based on your business needs, we put the following quote together to help with your purchase decision. Please review your quote details below, then contact your sales rep when you're ready to place your order.

**Total: $16,645.00**

**Quote number:**
3000019259051.1

**Quote date:**
Nov. 6, 2017

**Quote expiration:**
Dec. 6, 2017

**Company name:**
FRAMINGHAM PUBLIC SCHOOLS

**Customer number:**
125651752

**Phone:**
(508) 626-9100

**Sales rep information:**

Russell Suits
Russell_Suits@Dell.com
(800) 456-3355
Ext: 5138586

**Billing Information:**

FRAMINGHAM PUBLIC SCHOOLS
73 MOUNT WAYTE AVE
STE 5
SJM
FRAMINGHAM
MA 01702-5803
US
(508) 626-9100

## Pricing Summary

| Item | Qty | Unit Price | Subtotal |
|---|---|---|---|
| Dell Interactive Conference Room 70 Monitor - C7017T | 5 | $3,329.00 | $16,645.00 |
| | | **Subtotal:** | $16,645.00 |
| | | **Shipping:** | $0.00 |
| | | **Environmental Fees:** | $0.00 |
| | | **Non-Taxable Amount:** | $16,645.00 |
| | | **Taxable Amount:** | $0.00 |
| | | **Estimated Tax:** | $0.00 |
| | | **Total:** | **$16,645.00** |

Special lease pricing may be available for qualified customers. Please contact your DFS Sales Representative for details.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## Dear Customer,

Your Quote is detailed below; please review the quote for product and information accuracy. If you find errors or desire certain changes please contact me as soon as possible.

Regards,

Russell Suits

Order this quote easily online through your Premier page, or if you do not have Premier, using Quote to Order

## Shipping Group 1

| Shipping Contact: | Shipping phone: | Shipping via: | Shipping Address: |
|---|---|---|---|
| DANIELLE GLIMCHER | (508) 626-9100 | Standard Ground | OFFICE OF TECHNOLOGY<br>115 A ST RM K006<br>FRAMINGHAM<br>MA 01701-4175<br>US |

| SKU | Description | Qty | Unit Price | Subtotal |
|---|---|---|---|---|
| | Dell Interactive Conference Room 70 Monitor - C7017T | 5 | $3,329.00 | $16,645.00 |
| | **Estimated delivery date:** Nov. 10, 2017<br>**Contract No:** 78AFH<br>**Customer Agreement No:** ITC47 | | | |
| 210-AJJI | Dell Interactive Conference Room 70 Monitor - C7017T | 5 | - | - |
| 810-7363 | Dell Limited Hardware Warranty | 5 | - | - |
| 810-7371 | Advanced Exchange, 3 Years | 5 | - | - |

| | |
|---|---|
| **Subtotal:** | $16,645.00 |
| **Shipping:** | $0.00 |
| **Environmental Fees:** | $0.00 |
| **Estimated Tax:** | $0.00 |
| **Total:** | **$16,645.00** |


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# Important Notes

## Terms of Sale

Unless you have a separate written agreement that specifically applies to this order, your order will be subject to and governed by the following agreements, each of which are incorporated herein by reference and available in hardcopy from Dell at your request: Dell's Terms of Sale (www.dell.com/learn/us/en/uscorp1/terms-of-sale), which include a binding consumer arbitration provision and incorporate Dell's U.S. Return Policy (www.dell.com/returnpolicy) and Warranty (for Consumer warranties ; for Commercial warranties).

If this purchase includes services: in addition to the foregoing applicable terms, the terms of your service contract will apply (Consumer;Commercial). If this purchase includes software: in addition to the foregoing applicable terms, your use of the software is subject to the license terms accompanying the software, and in the absence of such terms, then use of the Dell-branded application software is subject to the Dell End User License Agreement - Type A (www.dell.com/AEULA) and use of the Dell-branded system software is subject to the Dell End User License Agreement - Type S ( www.dell.com/SEULA).

If your purchase is for Mozy, in addition to the foregoing applicable terms, your use of the Mozy service is subject to the terms and conditions located at https://mozy.com/about/legal/terms.

You acknowledge having read and agree to be bound by the foregoing applicable terms in their entirety. Any terms and conditions set forth in your purchase order or any other correspondence that are in addition to, inconsistent or in conflict with, the f oregoing applicable online terms will be of no force or effect unless specifically agreed to in a writing signed by Dell that expressly references such terms.

**Pricing, Taxes, and Additional Information**

All product, pricing, and other information is valid for U.S. customers and U.S. addresses only, and is based on the latest information available and may be subject to change. Dell reserves the right to cancel quotes and orders arising from pricing or other errors. Please indicate any tax-exempt status on your PO, and fax your exemption certificate, including your Customer Number, to the Dell Tax Department at 800-433-9023. Please ensure that your tax-exemption certificate reflects the correct Dell entity name: **Dell Marketing L.P.**
Note: All tax quoted above is an estimate; final taxes will be listed on the invoice.

**If you have any questions regarding tax please send an e-mail to Tax_Department@dell.com.**

For certain products shipped to end-users in California, a State Environmental Fee will be applied to your invoice. Dell encourages customers to dispose of electronic equipment properly.


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# QUOTE CONFIRMATION

PEOPLE WHO GET IT

**DEAR DANIELLE GLIMCHER,**

Thank you for considering CDW•G for your computing needs. The details of your quote are below. Click here to convert your quote to an order.

| QUOTE # | QUOTE DATE | QUOTE REFERENCE | CUSTOMER # | GRAND TOTAL |
|---|---|---|---|---|
| JDLB191 | 8/7/2017 | JDLB191 | 8078719 | $509.00 |

**QUOTE DETAILS**

| ITEM | QTY | CDW# | UNIT PRICE | EXT. PRICE |
|---|---|---|---|---|
| InFocus IN124x DLP projector - 3D<br>Mfg. Part#: IN124X<br>UNSPSC: 45111609<br>Contract: Massachusetts OFF40 Audio Visual (OFF40) | 1 | 4248393 | $509.00 | $509.00 |

**PURCHASER BILLING INFO**

**Billing Address:**
FRAMINGHAM PUBLIC SCHOOLS
BUSINESS ADMINISTRATIONS
73 MOUNT WAYTE AVE STE 5
FRAMINGHAM, MA 01702-5803
**Phone:** (508) 626-9100
**Payment Terms:** NET 30 Days-Govt/Ed

| | |
|---|---|
| SUBTOTAL | $509.00 |
| SHIPPING | $0.00 |
| GRAND TOTAL | $509.00 |

**DELIVER TO**

**Shipping Address:**
FRAMINGHAM PUBLIC SCHOOLS
DANIELLE GLIMCHER
115 A ST RM K006
OFFICE OF TECHNOLOGY
FRAMINGHAM, MA 01701-4175
**Shipping Method:** UPS Ground (2- 3 Day)

**Please remit payments to:**

CDW Government
75 Remittance Drive
Suite 1515
Chicago, IL 60675-1515

Need Assistance? CDW•G SALES CONTACT INFORMATION

Chris Lipford | (855) 822-6530 | chrilip@cdwg.com

This quote is subject to CDW's Terms and Conditions of Sales and Service Projects at http://www.cdwg.com/content/terms-conditions/product-sales.aspx
For more information, contact a CDW account manager

© 2017 CDW•G LLC, 200 N. Milwaukee Avenue, Vernon Hills, IL 60061 | 800.808.4239

# A quote for your consideration!

Based on your business needs, we put the following quote together to help with your purchase decision. Please review your quote details below, then contact your sales rep when you're ready to place your order.

**Total:$815.00**

| Quote number: | Quote date: | Quote expiration: | Deal ID: |
|---|---|---|---|
| 3000014589928.1 | Jun. 9, 2017 | Jul. 9, 2017 | 12784311 |

| Company name: | Customer number: | Phone: | Purchase Order: |
|---|---|---|---|
| FRAMINGHAM PUBLIC SCHOOLS | 125651752 | (508) 626-9100 | 17112463 |

**Sales rep information:**
Russell Suits
Russell_Suits@Dell.com
(800) 456-3355
Ext: 5138586

**Bill to:**
FRAMINGHAM PUBLIC SCHOOLS
73 MOUNT WAYTE AVE STE 5
SJM
FRAMINGHAM
MA 01702-5803
US
(508) 626-9100

## Pricing Summary

| Item | Qty | Unit price | Subtotal |
|---|---|---|---|
| Dell Latitude 5480 | 1 | $815.00 | $815.00 |

| | |
|---|---|
| **Subtotal:** | $815.00 |
| **Shipping:** | $0.00 |
| **Environmental Fees:** | $0.00 |
| **Non-Taxable Amount:** | $815.00 |
| **Taxable Amount:** | $0.00 |
| **Estimated Tax:** | $0.00 |
| **Total:** | **$815.00** |

Special lease pricing may be available for qualified customers. Please contact your DFS Sales Representative for details.



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# Dear Customer,

Your Quote is detailed below; please review the quote for product and information accuracy. If you find errors or desire certain changes please contact me as soon as possible.
Regards,
Russell Suits
Order this quote easily online through your Premier page,
or if you do not have Premier, using Quote to Order

## Shipping Group 1

| Shipping Contact: | Shipping phone: | Shipping via: | Shipping Address: |
|---|---|---|---|
| DANIELLE GLIMCHER | (508) 782-6900 | Standard Ground | OFFICE OF TECHNOLOGY<br>115 A ST RM K006<br>FRAMINGHAM<br>MA 01701-4175<br>US |

| SKU | Description | Qty | Unit Price | Subtotal |
|---|---|---|---|---|
| | Dell Latitude 5480 | 1 | $815.00 | $815.00 |
| | **Estimated Delivery Date: Jun. 16 - Jun. 19, 2017** | | | |
| | **Contract Code: 78AFH** | | | |
| | **Customer Agreement No: ITC47** | | | |
| 210-AKCF | Dell Latitude 5480, BTX | 1 | - | - |
| 379-BCPQ | 7th Generation Intel Core i5-7300U (Dual Core, 2.60Gz, 3MB cache) | 1 | - | - |
| 619-AHKN | Win 10 Pro 64 English, French, Spanish | 1 | - | - |
| 658-BCSB | Microsoft(R) Office 30 Days Trial | 1 | - | - |
| 338-BKOL | Intel(R) Core(TM) i5-7300U Processor Base, Integrated HD Graphics 620 | 1 | - | - |
| 631-ABEG | Intel Vpro Technology Enable | 1 | - | - |
| 370-ADIB | 8G (1 X 8G) DDR4 Memory | 1 | - | - |
| 400-AOQO | 128GB M.2 2280 SSD | 1 | - | - |
| 575-BBKU | M.2 SSD SATA Hard Drive Bracket | 1 | - | - |
| 340-ADBJ | Thank You for Choosing Dell | 1 | - | - |
| 320-BCCX | Non Touch LCD Backcover, WWAN | 1 | - | - |
| 325-BCFN | Non-Touch bezel with camera | 1 | - | - |
| 391-BCZW | 35.6cm (14.0") Non-Touch Anti-Glare HD (1366 x 768) | 1 | - | - |
| 583-BDNW | Internal US-English Qwerty Dual Pointing Backlit | 1 | - | - |



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| | | | | |
|---|---|---|---|---|
| | Keyboard | | | |
| 570-AADK | No Mouse | 1 | - | - |
| 555-BDFW | Intel Dual-Band Wireless-AC 8265 Driver | 1 | - | - |
| 555-BDGD | Intel Dual-Band Wireless-AC 8265 Wi-Fi + BT 4.2 Wireless Card (2x2) | 1 | - | - |
| 362-BBBB | No Wireless WAN Card | 1 | - | - |
| 451-BBXV | Primary 4-cell 68W/HR Battery | 1 | - | - |
| 492-BBXF | 65W AC Adapter, 3-pin | 1 | - | - |
| 346-BCEL | Dual Pointing Palmrest Smart Card only | 1 | - | - |
| 634-BENZ | No DDP ESS Software | 1 | - | - |
| 954-3465 | No DDPE Encryption Software | 1 | - | - |
| 998-CIPG | Fixed Hardware Configuration | 1 | - | - |
| 450-AAEJ | US Power Cord | 1 | - | - |
| 340-ACQQ | No Option Included | 1 | - | - |
| 332-1286 | US Order | 1 | - | - |
| 430-XXYG | No Resource DVD | 1 | - | - |
| 460-BBEX | No Carrying Case | 1 | - | - |
| 340-BKJC | Windows 10 Placemat | 1 | - | - |
| 387-BBLZ | Energy Star 6.1 | 1 | - | - |
| 575-BBCH | No Stand included | 1 | - | - |
| 800-BBGW | Smart Selection Shipment (S) | 1 | - | - |
| 620-AAOH | No Media | 1 | - | - |
| 340-AGIK | Safety/Environment and Regulatory Guide (English/French Multi-language) | 1 | - | - |
| 340-ADFZ | Dell Power Manager | 1 | - | - |
| 525-BBCL | SupportAssist | 1 | - | - |
| 640-BBLW | Dell(TM) Digital Delivery Cirrus Client | 1 | - | - |
| 658-BBMR | Dell Client System Update (Updates latest Dell Recommended BIOS, Drivers, Firmware and Apps) | 1 | - | - |
| 658-BBRB | Waves Maxx Audio | 1 | - | - |
| 658-BCUV | Dell Developed Recovery Environment | 1 | - | - |
| 658-BDKD | System Shipment, Latitude 5480 | 1 | - | - |
| 452-BBSE | No Docking Station | 1 | - | - |
| 389-BCDK | EAN label | 1 | - | - |
| 340-AAPP | Directship Info Mod | 1 | - | - |
| 340-BKFX | Min Config Packaging DAO | 1 | - | - |
| 389-BEYY | Regulatory Label included | 1 | - | - |
| 409-BBKS | Intel Rapid Storage Technology | 1 | - | - |
| 389-BREQ | Intel Core i5 vPRO Label | 1 | - | - |
| 650-AAAM | No Anti-Virus Software | 1 | - | - |
| 975-3461 | Dell Limited Hardware Warranty Extended Year(s) | 1 | - | - |
| 997-8317 | Dell Limited Hardware Warranty | 1 | - | - |
| 997-8328 | Onsite/In-Home Service After Remote Diagnosis, 1 Year | 1 | - | - |
| 997-8332 | Onsite/In-Home Service After Remote Diagnosis, 2 Year Extended | 1 | - | - |
| 429-AATO | No Removable CD/DVD Drive | 1 | - | - |



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| | |
|---|---|
| **Subtotal:** | $815.00 |
| **Shipping:** | $0.00 |
| **Environmental Fees:** | $0.00 |
| **Estimated Tax:** | $0.00 |
| **Total:** | **$815.00** |



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# Important Notes

## Terms of Sale

Unless you have a separate written agreement that specifically applies to this order, your order will be subject to and governed by the following agreements, each of which are incorporated herein by reference and available in hardcopy from Dell at your request: Dell's Terms of Sale (www.dell.com/learn/us/en/uscorp1/terms-of-sale), which include a binding consumer arbitration provision and incorporate Dell's U.S. Return Policy (www.dell.com/returnpolicy) and Warranty (for Consumer warranties; for Commercial warranties).

If this purchase includes services: in addition to the foregoing applicable terms, the terms of your service contract will apply (Consumer; Commercial). If this purchase includes software: in addition to the foregoing applicable terms, your use of the software is subject to the license terms accompanying the software, and in the absence of such terms, then use of the Dell-branded application software is subject to the Dell End User License Agreement - Type A (www.dell.com/AEULA) and use of the Dell-branded system software is subject to the Dell End User License Agreement - Type S (www.dell.com/SEULA).

You acknowledge having read and agree to be bound by the foregoing applicable terms in their entirety. Any terms and conditions set forth in your purchase order or any other correspondence that are in addition to, inconsistent or in conflict with, the foregoing applicable online terms will be of no force or effect unless specifically agreed to in a writing signed by Dell that expressly references such terms.

## Pricing, Taxes, and Additional Information

All product, pricing, and other information is valid for U.S. customers and U.S. addresses only, and is based on the latest information available and may be subject to change. Dell reserves the right to cancel quotes and orders arising from pricing or other errors. Please indicate any tax-exempt status on your PO, and fax your exemption certificate, including your Customer Number, to the Dell Tax Department at 800-433-9023. Please ensure that your tax-exemption certificate reflects the correct Dell entity name: **Dell Marketing L.P.**
Note: All tax quoted above is an estimate; final taxes will be listed on the invoice.

**If you have any questions regarding tax please send an e-mail to Tax_Department@dell.com.**

For certain products shipped to end-users in California, a State Environmental Fee will be applied to your invoice. Dell encourages customers to dispose of electronic equipment properly.

**^Dell Business Credit (DBC):**

OFFER VARIES BY CREDITWORTHINESS AS DETERMINED BY LENDER. Offered by WebBank to Small and Medium Business customers with approved credit. Taxes, shipping and other charges are extra and vary. Minimum monthly payments are the greater of $15 or 3% of account balance. Dell Business Credit is not offered to government or public entities, or business entities located and organized outside of the United States.

***Dell Financial Services Lease:**

1. This proposal is property of Dell Financial Services and contains confidential information. This proposal shall not be duplicated or disclosed in whole or part. Minimum transaction size $500.
2. All terms are subject to credit approval, execution and return of mutually acceptable lease documentation.
3. Lease rates are based upon the final amount, configuration and specification of the supplied equipment. Interim rent may apply and be due in the first payment cycle.
4. The Lease Quote is exclusive of shipping costs, maintenance fees, filing fees, licensing fees, property or use taxes, insurance premiums and similar items, which shall be for Lessee's account.
5. This proposal is valid through the expiration date shown above, or, if none is specified, for 30 calendar days from date of presentation.



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# A quote for your consideration!

**Total: $229.00**

Based on your business needs, we put the following quote together to help with your purchase decision. Please review your quote details below, then contact your sales rep when you're ready to place your order.

| Quote number: | Quote date: | Quote expiration: | Deal ID: |
|---|---|---|---|
| 3000019280057.1 | Nov. 7, 2017 | Dec. 7, 2017 | 12784311 |

| Company name: | Customer number: | Phone: |
|---|---|---|
| FRAMINGHAM PUBLIC SCHOOLS | 125651752 | (508) 626-9100 |

**Sales rep information:**

Russell Suits
Russell_Suits@Dell.com
(800) 456-3355
Ext: 5138586

**Billing Information:**

FRAMINGHAM PUBLIC SCHOOLS
73 MOUNT WAYTE AVE
STE 5
SJM
FRAMINGHAM
MA 01702-5803
US
(508) 626-9100

## Pricing Summary

| Item | Qty | Unit Price | Subtotal |
|---|---|---|---|
| Chromebook 11 3180 | 1 | $204.00 | $204.00 |
| Chrome Education | 1 | $25.00 | $25.00 |
| | | **Subtotal:** | $229.00 |
| | | **Shipping:** | $0.00 |
| | | **Environmental Fees:** | $0.00 |
| | | **Non-Taxable Amount:** | $229.00 |
| | | **Taxable Amount:** | $0.00 |
| | | **Estimated Tax:** | $0.00 |
| | | **Total:** | **$229.00** |

Special lease pricing may be available for qualified customers. Please contact your DFS Sales Representative for details.


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## Dear Customer,

Your Quote is detailed below; please review the quote for product and information accuracy. If you find errors or desire certain changes please contact me as soon as possible.

Regards,

Russell Suits

Order this quote easily online through your Premier page, or if you do not have Premier, using Quote to Order

## Shipping Group 1

| Shipping Contact: | Shipping phone: | Shipping via: | Shipping Address: |
|---|---|---|---|
| DANIELLE GLIMCHER | (508) 626-9100 | Standard Ground | OFFICE OF TECHNOLOGY<br>115 A ST RM K006<br>FRAMINGHAM<br>MA 01701-4175<br>US |

| SKU | Description | Qty | Unit Price | Subtotal |
|---|---|---|---|---|
| | Chromebook 11 3180 | 1 | $204.00 | $204.00 |
| | **Estimated delivery date:** Nov. 14 - 17, 2017<br>**Contract No:** 78AFH<br>**Customer Agreement No:** ITC47 | | | |
| 210-AKSJ | Dell Chromebook 11 3180, BTX | 1 | - | - |
| 329-BDJR | Intel Celeron N3060 Processor with 4GB Memory and 16GB eMMC | 1 | - | - |
| 389-BHZJ | Intel(R) Label | 1 | - | - |
| 580-AFZH | US Int Dell KB216 Wired English Keyboard Black | 1 | - | - |
| 451-BBYY | Primary 3-Cell 42W/HR Battery | 1 | - | - |
| 391-BDDQ | 11.6" HD Non-Touch LCD | 1 | - | - |
| 320-BCEF | LCD Cover, Non-Touch (Black) | 1 | - | - |
| 389-BCGW | No UPC Label | 1 | - | - |
| 492-BBDD | 65 Watt AC Adaptor | 1 | - | - |
| 537-BBBL | US Power Cord | 1 | - | - |
| 340-AGIK | Safety/Environment and Regulatory Guide (English/French Multi-language) | 1 | - | - |
| 340-BLRC | Quick Setup Guide (English, French, Dutch) | 1 | - | - |


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| | | | | |
|---|---|---|---|---|
| 389-BKKL | EAN label | 1 | - | - |
| 340-AAPP | Direct ship Info Mod | 1 | - | - |
| 340-BLRS | Min Config Packaging | 1 | - | - |
| 340-BLRT | SHIP,CRMBK,3180,WW,MIN | 1 | - | - |
| 998-CKUE | Fixed Hardware Configuration | 1 | - | - |
| 800-BBGW | Smart Selection Shipment (S) | 1 | - | - |
| 340-AASE | No Setup and Features Guide | 1 | - | - |
| 340-ABJI | No Diagnostic/Recovery CD media | 1 | - | - |
| 631-ABBH | Not Included | 1 | - | - |
| 812-6904 | Dell Limited Hardware Warranty Initial Year | 1 | - | - |
| 812-6916 | Onsite/In-Home Service After Remote Diagnosis, 1 Year | 1 | - | - |

| SKU | Description | Qty | Unit Price | Subtotal |
|---|---|---|---|---|
| | Chrome Education | 1 | $25.00 | $25.00 |
| | **Estimated delivery date:** Nov. 27 - 30, 2017<br>**Contract No:** 78AFH<br>**Customer Agreement No:** ITC47 | | | |
| A7611038 | Chrome Education | 1 | - | - |

| | |
|---|---|
| **Subtotal:** | $229.00 |
| **Shipping:** | $0.00 |
| **Environmental Fees:** | $0.00 |
| **Estimated Tax:** | $0.00 |
| **Total:** | **$229.00** |


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# Important Notes

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If this purchase includes services: in addition to the foregoing applicable terms, the terms of your service contract will apply (Consumer;Commercial). If this purchase includes software: in addition to the foregoing applicable terms, your use of the software is subject to the license terms accompanying the software, and in the absence of such terms, then use of the Dell-branded application software is subject to the Dell End User License Agreement - Type A (www.dell.com/AEULA) and use of the Dell-branded system software is subject to the Dell End User License Agreement - Type S ( www.dell.com/SEULA).

If your purchase is for Mozy, in addition to the foregoing applicable terms, your use of the Mozy service is subject to the terms and conditions located at https://mozy.com/about/legal/terms.

You acknowledge having read and agree to be bound by the foregoing applicable terms in their entirety. Any terms and conditions set forth in your purchase order or any other correspondence that are in addition to, inconsistent or in conflict with, the f oregoing applicable online terms will be of no force or effect unless specifically agreed to in a writing signed by Dell that expressly references such terms.

**Pricing, Taxes, and Additional Information**

All product, pricing, and other information is valid for U.S. customers and U.S. addresses only, and is based on the latest information available and may be subject to change. Dell reserves the right to cancel quotes and orders arising from pricing or other errors. Please indicate any tax-exempt status on your PO, and fax your exemption certificate, including your Customer Number, to the Dell Tax Department at 800-433-9023. Please ensure that your tax-exemption certificate reflects the correct Dell entity name: **Dell Marketing L.P.**
Note: All tax quoted above is an estimate; final taxes will be listed on the invoice.

**If you have any questions regarding tax please send an e-mail to Tax_Department@dell.com.**

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# FY2019 Recommended: Bond $900,000

| | | | |
|---|---|---|---|
| **Project Number:** | FPS/B&G/2019/FAR19 | **Budget Year:** | 2019 |
| **Project Title:** | Farley Renovation | **Scenario:** | Main 2019 |
| **Asset Type:** | SCHOOL BUILDING | **Budget Status:** | Department Request |
| **Department:** | C3-971 - Building & Grounds Department | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | TBD | **Project Partner:** | |
| **Est. Completion Date:** | TBD | | |

## Description:

Farley Renovation

## Comments:

Although we await the results of the Fuller School MSBA Feasibility Study to determine whether the Farley Building will be prepared for swing space or a temporary home for staff and students' while the new Fuller is being constructed, we do know that all of the other occupants, i.e. Buildings and Grounds, Parent Information Center, Town Board of Health Department, Adult ESL, Truant Officer and ECA (Early Childhood Assessment) will require a new home. It remains to be seen where those offices will relocate too.

We anticipate that the Farley Building will become a mixed use building and will house some form of education, whether it be Mass Bay Community College or FPS, (Adult ESL or something else) is still to be determined but we know that will need to house Maintenance, Administrative and some education.

## Justification:

The Fuller School houses currently the Buildings and Grounds Department comprised of the Buildings and Grounds office and maintenance shop as well as vehicle and equipment storage.
The Department occupies approximately 30,000 square feet. We have preparations and designs of the Farley Building in the existing pool and locker room area and plan to relocate and house the B &G Departments at Farley in that area of the building. A new roof and exterior siding as well as demolition and infill of the existing pool were done last year and an overhead door was installed in preparation of converting the pool to a maintenance garage and shop for Buildings and Grounds.

The next phase of work will include demolition of existing C.M.U. walls, and plaster ceilings in the locker room areas – reframing new partitions per the architects plan, purchasing and installing a new HVAC unit, fire alarm, electrical, plumbing and mechanical systems and installation of new concrete floors are where the swimming pool was.

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 900,000 | 0 | 900,000 |
| | **900,000** | **0** | **900,000** |

**3. Farley Renovation**

**FY19:**

The Fuller School houses currently the Buildings and Grounds Department comprised of the Buildings and Grounds office and maintenance shop as well as vehicle and equipment storage. The Department occupies approximately 30,000 square feet. We have preparations and designs of the Farley Building in the existing pool and locker room area and plan to relocate and house the B &G Departments at Farley in that area of the building. A new roof and exterior siding as well as demolition and infill of the existing pool were done last year and an overhead door was installed in preparation of converting the pool to a maintenance garage and shop for Buildings and Grounds.

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Although we await the results of the Fuller School MSBA Feasibility Study to determine whether the Farley Building will be prepared for swing space or a temporary home for staff and students' while the new Fuller is being constructed, we do know that all of the other occupants, i.e. Buildings and Grounds, Parent Information Center, Town Board of Health Department, Adult ESL, Truant Officer and ECA (Early Childhood Assessment) will require a new home. It remains to be seen where those offices will relocate too.

We anticipate that the Farley Building will become a mixed use building and will house some form of education, whether it be Mass Bay Community College or FPS, (Adult ESL or something else) is still to be determined but we know that will need to house Maintenance, Administrative and some education.

**$835,000**

October 2, 2017

# Proposal for Electrical Engineering Services

Matt Torti, director
Buildings and Grounds Department
Framingham Public Schools
31 Flagg Drive, Suite 6
Framingham, Massachusetts 01702

**Interior Alterations**
**Buildings and Grounds Department**
**Former Farley School**
**Flagg Drive**
**Framingham, Massachusetts**

Mr. Torti,

As consultants for engineering services in conjunction with architectural services provided by Haynes, Lieneck, and Smith, Inc.; Shepherd Engineering, Inc. offers to provide electrical engineering services at the former Farley School to modify the locker rooms for offices for the Buildings and Grounds Department and to fit up the former natatorium as a shop and vehicle storage with a mezzanine along one side. For a fixed fee of **$10,000.00** Shepherd Engineering, Inc. proposes to provide Electrical Engineering Services for bid ready construction documents for the following work:

> In the Buildings and Grounds Department provide power distribution, lighting, egress lighting, and fire alarm connected to existing systems
>
> In the shop area and vehicle parking area, provide power distribution, lighting, egress lighting, and fire alarm connected to existing systems including power distribution for equipment with emergency shut off and including power to safety disconnect switch for roof mounted mechanical equipment
>
> For the mezzanine, provide power distribution, lighting, egress lighting, and fire alarm connected to existing systems.

Shepherd Engineering, Inc. understands that the drawings of the original construction are available.

Please advise of any questions.

Submitted for

Shepherd Engineering, Inc.
1308 Grafton Street
Worcester, Massachusetts 01604

HAYNES LIENECK AND SMITH INC ARCHITECTS

10 Common Road
Post Office Box 128
Ashby, Massachusetts 01431-0128
(978) 386-2473
(978) 386-2474 (facsimile)

September 30, 2017

Carol Brodeur, executive assistant
Framingham Public Schools
Buildings and Grounds Department
73 Mount Wayte Avenue, Suite #5
Framingham, Massachusetts 01702

**Architect's Project 1918**
**Interior Alterations**
**Building and Grounds Department**
**Framingham Public Schools**
**Former Farley School**
**19 Flagg Drive**
**Framingham, Massachusetts**

**INVOICE 7076**

Basic Services: $ 1,101.25

Compensation for architectural services involved with preparing floor plan of Buildings and Grounds Department and with budget cost estimate.

**SUMMARY OF EMPLOYEE TIME**

| PERIOD ENDING | EMPLOYEE | HOURS | AMOUNT | TASK |
|---|---|---|---|---|
| 2017-09-09 | PSL | 1.25 | 118.75 | Review scope of work; budget costs based on area: build out locker room, mezzanine, floor slab in shop; electronic messages |
| 2017-09-23 | PSL | 0.75 | 71.25 | Floor plan sketches; verify scope of work |
| 2017-09-23 | CPL | 5.50 | 247.50 | Floor plan: Buildings and Grounds Department |
| 2017-09-30 | PSL | 2.25 | 213.75 | Floor plan sketch; met M. Torti, Carol Brodeur, B. Parker; reviewed scope of work; site observations; reviewed scope of work with custodial staff |
| 2017-09-30 | CPL | 20.00 | 450.00 | Floor plan; demolition: floor plan |
| **Total** | | | 1,101.25 | |

**Amount Due.....$ 1,101.25**

October 2, 2017

# Proposal for Mechanical Engineering Services

Matt Torti, director
Buildings and Grounds Department
Framingham Public Schools
31 Flagg Drive, Suite 6
Framingham, Massachusetts 01702

**Interior Alterations**
**Buildings and Grounds Department**
**Former Farley School**
**Flagg Drive**
**Framingham, Massachusetts**

Matt

As consultants for engineering services in conjunction with architectural services provided by Haynes, Lieneck, and Smith, Inc.; Seaman Engineering Corporation offers to provide mechanical engineering services at the former Farley School to modify the locker rooms for offices for the Buildings and Grounds Department and to fit up the former natatorium as a shop and vehicle storage with a mezzanine along one side. For a fixed fee of **$15,000.00** Seaman Engineering Corporation proposes to provide Mechanical Engineering Services for bid ready construction documents for the following work:

> In the Buildings and Grounds spaces provide plumbing engineering for disconnecting existing locker room shower facilities and for providing kitchenette sinks, a men's toilet, and any other plumbing needed.
>
> In the vehicle parking area, provide plumbing engineering services for an under slab drainage system for 15 vehicles including floor drains, underground piping, oil and gasoline separator on the exterior, vent piping, and connection to waste piping on site
>
> Provide mechanical systems engineering to modify the existing systems to separate the two student toilet rooms and to provide heating, ventilating, and air conditioning for the Buildings and Grounds Department
>
> Provide mechanical engineering to replace the roof top air handling unit in the natatorium to provide heating, ventilating, and air conditioning for the shop space and vehicle parking area
>
> Provide mechanical engineering to provide heating and ventilation for any mezzanine space

Seaman Engineering Corporation understands that the drawings of the original construction are available for inspection and that the existing ceiling will be removed in the lockers rooms to expose the existing mechanical systems which currently include heating, ventilating, and air conditioning for the locker room areas.

Please advise of any questions.

Submitted for

Seaman Engineering Corporation
30 Faith Avenue
Auburn, Massachusetts 01501

# FY2019 Recommended: Bond $200,000

| | | | |
|---|---|---|---|
| **Project Number:** | FPS/B&G/2019/H | **Budget Year:** | 2019 |
| **Project Title:** | Security Enhancement Throughout the District | **Scenario:** | Main 2019 |
| **Asset Type:** | | **Budget Status:** | Department Request |
| **Department:** | C3-971 - Building & Grounds Department | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | July 1, 2018 | **Project Partner:** | |
| **Est. Completion Date:** | TBD | | |

## Description:

Security Enhancement Throughout the District

## Comments:

The School Department has implemented increased security measures throughout the District and is mindful of past and ongoing school related security events across our nation. The District greatly expanded its security in the spring of 2013. This request for funding will further support and enhance security measures for all our schools.

## Justification:

For the FY19 school year, the District is requesting funding for the following:

The Walsh school is a 26 camera add, based on the walkthrough with the principal. Most of these cameras were installed in 2011. There are some very old analog cameras that are being encoded to IP and some cameras that existed prior to BCM being your integrator. This will improve the camera images throughout.

Upgrades to all the IP based 2MP fixed dome cameras at the Framingham High School to the new state of the art 2 MP Axis P3365 cameras throughout. Add 10 new IP cameras at locations to be determined.

Vendor - BCM

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 200,000 | 0 | 200,000 |
| | **200,000** | **0** | **200,000** |

## 7. School Department Security Enhancement throughout the District

**FY19:**

The School Department has implemented increased security measures throughout the District and is mindful of past and ongoing school related security events across our nation. The District greatly expanded its security in the spring of 2013. This request for funding will further support and enhance security measures for all our schools. For the FY19 school year, the District is requesting funding for the following:

The Walsh school is a 26 camera add, based on the walkthrough with the principal. Most of these cameras were installed in 2011. There are some very old analog cameras that are being encoded to IP and some cameras that existed prior to BCM being your integrator. This will improve the camera images throughout.

Upgrades to all the IP based 2MP fixed dome cameras at the Framingham High School to the new state of the art 2 MP Axis P3365 cameras throughout. Add 10 new IP cameras at locations to be determined.

Vendors
BCM

**$200,000**

BCM Controls Corporation
30 Commerce Way, Woburn, Massachusetts 01801
Phone: 781-933-8878 Fax: 781-932-3856

# BCM CONTROLS PROPOSAL

| | |
|---|---|
| Date: | 10/14/2017 |
| Reference: | |
| | Page 1 of 3 |
| Project Name: | Walsh CCTV additions |
| Project Location: | Framingham Ma |
| Customer Project #: | |
| | |
| BCM Project #: | |
| | |
| Submitted By: | Tim Talbot |
| Copy To: | |

**Proposal To:**

**Attention:**
Ernie Moreau

**BCM Controls is pleased to propose the following scope of work:**

Provide and install all necessary equipment to add (26) cameras throughout the Walsh school. Main focus of new cameras are bathroom entrances, stairwells, lockers and general hallway activity.

COMFORT SYSTEMS USA®
BCM Controls Corporation
30 Commerce Way, Woburn, Massachusetts 01801
Phone: 781-933-8878 Fax: 781-932-3856

## BCM CONTROLS FAC64 PRICING

| | |
|---|---|
| Date: | 10/14/2017 |
| Reference: | |
| | Page 2 of 3 |
| Project Name: | Walsh CCTV additions |

**BCM Controls is pleased to propose the Material/Labor as referenced in the Scope of Work:**

| Quantity | Manufacturer | Model / Description | % Off | List Price | Unit Price | Total Price |
|---|---|---|---|---|---|---|
| 26 | Axis | P3365-V | 1% | 799.00 | 791.01 | 20,566 |
| 26 | Milestone | Camera license | 1% | 199.00 | 197.01 | 5,122 |
| 26 | Milestone | Camera license SMA (1-Year) | 1% | 36.00 | 35.64 | 927 |
| 1 | BCM | BCMDL06092620E 5.6 TB storage | 30% | 6,743.00 | 4,720.10 | 4,720 |
| 1 | | Miscellaneous Installation Materials | | | 3,500.00 | 3,500.00 |
| | | **Total Materials** | | | | **34,835** |
| **Hours** | | **Description** | | | **Unit Price** | **Total Cost** |
| | | Non Prevailing Wage | | | | |
| | | Sr. Project Manager | | | | |
| 16 | | Project Manager | | | 149.00 | $2,384 |
| 72 | | Programmer / Software Technician | | | 119.00 | $8,568 |
| 12 | | Design Engineer | | | 149.00 | $1,788 |
| | | Prevailing Wage | | | | |
| | | Installation Foreman (Electrician) | | | | |
| 180 | | Technician (Telecom Tech) | | | 123.21 | $22,177 |
| | | Installer (Electrician) | | | 149.00 | |
| | | **Total Labor** | | | | **$34,917** |
| | | **Total Project** | | | | **$69,753** |

COMFORT SYSTEMS USA

BCM Controls Corporation

30 Commerce Way, Woburn, Massachusetts 01801

Phone: 781-933-8878 Fax: 781-932-3856

# BCM CONTROLS PROPOSAL

| | |
|---|---|
| Date: | 10/14/2017 |
| Reference: | |
| | Page 3 of 3 |
| Project Name: | Walsh CCTV additions |
| Project Location: | Framingham Ma |
| Customer Project #: | |
| | |
| BCM Project #: | |
| | |
| Submitted By: | Tim Talbot |
| Copy To: | |

**Proposal To:**

| |
|---|
| **Attention:** |
| Ernie Moreau |
| 0 |
| 0 |
| 0 |
| 0 |

**Notes and Clarifications**

- Installation during regular business hours
- BCM to provide complete installation, including engineering, project management, programming, testing and user training
- TCP/IP LAN/WAN network connectivity by others
- 120V/AC power and UPS/surge protection at BCM devices by others
- BCM to provide warranty as per FAC64

Proposal type

○ T & M ○ T & M not to exceed ◉ Fixed Price

Overtime

◉ All work on straight-time ○ Overtime included

This proposal is valid for

◉ 30 days ○ 60 days ○ 90 days

Payment terms

◉ Net 30 days ○ Existing contract format

All materials are of the description specified. Work will be performed in accord with standard practice. Any change is subject to material agreement, and in the event of such change, an equitable adjustment will be made in price. Not responsible for any cause or condition beyond our control. Purchaser responsible for all necessary insurance. Payment will be made to BCM Controls according to payment terms above. The extension of credit is subject to approval.

**The above proposal is accepted and you are authorized to proceed for the sum indicated in this proposal.**

Date of Acceptance _____ Accepted By: _____

Purchase order # _____ Printed Name: _____

BCM Controls Corporation
30 Commerce Way, Woburn, Massachusetts 01801
Phone: 781-933-8878 Fax: 781-932-3856

# BCM CONTROLS PROPOSAL

| | |
|---|---|
| Date: | 10/14/2017 |
| Reference: | |
| | Page 1 of 3 |
| Project Name: | FY18 CCTV Upgrade |
| Project Location: | Framingham Ma |
| Customer Project #: | |
| | |
| BCM Project #: | |
| | |
| Submitted By: | Tim Talbot |
| Copy To: | |

**Proposal To:**

**Attention:**
Ernie Moreau

**BCM Controls is pleased to propose the following scope of work:**

BCM Controls proposes to upgrade all the FPS cameras to IP based 2MP fixed dome cameras. The existing cameras are made up of (29) legacy analog cameras, (29) 1MP IP cameras and (9) IP cameras of unknown origin. All cameras will be upgraded to new state of the art 2 MP Axis P3365 cameras throughout. This proposal includes reusing the existing coax cable to convert signals to ethernet with Altronix converters. Proposal also includes adding (10) new IP cameras at locations to be determined.
This is a turnkey proposal that includes providing, installing, programming and 1-year warranty.

COMFORT SYSTEMS USA
BCM Controls Corporation
30 Commerce Way, Woburn, Massachusetts 01801
Phone: 781-933-8878 Fax: 781-932-3856

## BCM CONTROLS FAC64 PRICING

| | |
|---|---|
| Date: | 10/14/2017 |
| Reference: | |
| | Page 2 of 3 |
| Project Name: | FY18 CCTV Upgrade |

**BCM Controls is pleased to propose the Material/Labor as referenced in the Scope of Work:**

| Quantity | Manufacturer | Model / Description | % Off | List Price | Unit Price | Total Price |
|---|---|---|---|---|---|---|
| 77 | Axis | P3365-V | 1% | 799.00 | 791.01 | 60,908 |
| 2 | Altronix | Ebridge 16PCRM | 35% | 3,390.00 | 2,203.50 | 4,407 |
| 29 | Altronix | Ebridge1PCRM | 35% | 311.00 | 202.15 | 5,862 |
| 1 | Altronix | Ebridge4PCRM | 35% | 795.00 | 516.75 | 517 |
| 10 | Milestone | XPECL Camera License | 1% | 199.00 | 197.01 | 1,970 |
| 10 | Milestone | XPEBL License SMA | 1% | 36.00 | 35.64 | 356 |
| 1 | | Miscellaneous Installation Materials | | | 750.00 | 750.00 |
| | | **Total Materials** | | | | **74,770** |
| **Hours** | | **Description** | | | **Unit Price** | **Total Cost** |
| | | Non Prevailing Wage | | | | |
| | | Sr. Project Manager | | | | |
| 40 | | Project Manager | | | 149.00 | $5,960 |
| 300 | | Programmer / Software Technician | | | 119.00 | $35,700 |
| 24 | | Design Engineer | | | 149.00 | $3,576 |
| | | Prevailing Wage | | | | |
| | | Installation Foreman (Electrician) | | | | |
| 80 | | Technician (Telecom Tech) | | | 123.21 | $9,857 |
| | | Installer (Electrician) | | | 149.00 | |
| | | **Total Labor** | | | | **$55,093** |
| | | **Total Project** | | | | **$129,863** |

BCM Controls Corporation
30 Commerce Way, Woburn, Massachusetts 01801
Phone: 781-933-8878 Fax: 781-932-3856

# BCM CONTROLS PROPOSAL

| | |
|---|---|
| Date: | 10/14/2017 |
| Reference: | |
| | Page 3 of 3 |
| Project Name: | FY18 CCTV Upgrade |
| Project Location: | Framingham Ma |
| Customer Project #: | |
| | |
| BCM Project #: | |
| | |
| Submitted By: | Tim Talbot |
| Copy To: | |

**Proposal To:**

| |
|---|
| **Attention:** |
| Ernie Moreau |
| 0 |
| 0 |
| 0 |
| 0 |

**Notes and Clarifications**

- Installation during regular business hours
- BCM to provide complete installation, including engineering, project management, programming, testing and user training
- TCP/IP LAN/WAN network connectivity by others
- 120V/AC power and UPS/surge protection at BCM devices by others
- BCM to provide warranty as per FAC64

Proposal type
○ T & M ○ T & M not to exceed ◉ Fixed Price

Overtime
◉ All work on straight-time ○ Overtime included

This proposal is valid for
◉ 30 days ○ 60 days ○ 90 days

Payment terms
◉ Net 30 days ○ Existing contract format

All materials are of the description specified. Work will be performed in accord with standard practice. Any change is subject to material agreement, and in the event of such change, an equitable adjustment will be made in price. Not responsible for any cause or condition beyond our control. Purchaser responsible for all necessary insurance. Payment will be made to BCM Controls according to payment terms above. The extension of credit is subject to approval.

**The above proposal is accepted and you are authorized to proceed for the sum indicated in this proposal.**

Date of Acceptance _____ Accepted By: _____

Purchase order # _____ Printed Name: _____

# FY2019 Recommended: Free Cash $220,000

| | | | |
|---|---|---|---|
| **Project Number:** | FPS/B&G/2019/J | **Budget Year:** | 2019 |
| **Project Title:** | Charlotte Dunning Playground | **Scenario:** | Main 2019 |
| **Asset Type:** | SCHOOL BUILDING | **Budget Status:** | Department Request |
| **Department:** | C3-971 - Building & Grounds Department | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2018 | **Manager:** | |
| **Start Date:** | July 1, 2018 | **Project Partner:** | |
| **Est. Completion Date:** | August 31, 2018 | | |

## Description:

.
Charlotte Dunning Playground

## Comments:

The Dunning School P.T.O. is currently fund raising and planning a $20,000 investment into new swings as part of the upgrade. The School is also looking into A.D.A. funds and grant funds to help offset the cost of the two playgrounds.

## Justification:

The existing playground equipment is out of date and requires replacement. The existing parking and driveways were upgraded this year when some existing play structures had to be removed

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 220,000 | 0 | 220,000 |
| | **220,000** | **0** | **220,000** |

**9. Charlotte Dunning Playgrounds Equipment Replacement**

**FY19:**

Charlotte Dunning Elementary School is in need of new playground equipment. The existing playground equipment is out of date and requires replacement. The existing parking and driveways were upgraded this year when some existing play structures had to be removed.

The Dunning School P.T.O. is currently fund raising and planning a $20,000 investment into new swings as part of the upgrade. The School is also looking into A.D.A. funds and grant funds to help offset the cost of the two playgrounds.

**$ 220,000**

10/12/2017


**Ultiplay Parks and Playgrounds**
**Uxbridge, MA 01569**
**Joe McMahon**
**508-294-6518**


Town of Framingham
Framingham School Department
Playground estimate for Dunning Elementary School

| | | |
|---|---|---|
| Right side play area | | |
| Dunning B2-DIG | 2018 cost | $129,355 |
| Equipment purchased by PTO but in design | | ($8,559) |
| Shipping of play equipment | | $1,945 |
| Discount | | ($18,119) |
| **Total play equipment** | | **$104,622** |
| | | |
| **Installation options** | | |
| Ultiplay installation at prevailing wage | | $29,000 |
| Community-build supervision | | $4,000 |
| | | |
| Additional surfacing needed. | | $4,500 |
| Site work | | $2,700 |
| | | |
| **Left side play area** | | $54,258 |
| Discount | | ($8,139) |
| Shipping of play equipment | | $4,045 |
| **Total Play equipment** | | **$50,164** |
| | | |
| Ultiplay installation at prevailing wage | | $14,547 |
| Community-build installation | | $4,000 |
| | | |
| Additional surfacing needed | | $2,400 |

# FY2019 Recommended: Bond $300,000

| | | | |
|---|---|---|---|
| **Project Number:** | FPS/B&G/2019/K | **Budget Year:** | 2019 |
| **Project Title:** | Bathroom Renovations Barbieri School - ADA | **Scenario:** | Main 2019 |
| **Asset Type:** | | **Budget Status:** | Department Request |
| **Department:** | C3-971 - Building & Grounds Department | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | July 1, 2018 | **Project Partner:** | |
| **Est. Completion Date:** | August 31, 2018 | | |

## Description:

ADA Bathroom Renovations at the Barbieri School.

## Comments:

## Justification:

The existing bathrooms at the Barbieri Elementary School do not comply with the A.D.A. code requirements. In addition, the existing facilities were built in 1972 as Middle School therefor the height of the bathroom fixtures do not comply with the elementary school requirements. The proposed renovation addresses the boys and girls gang toilet room on the first and second floor for a total of 4 restrooms, (2 boys & 2 girls). There are additional bathrooms that will require updates in the future.

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 300,000 | 0 | 300,000 |
| | **300,000** | **0** | **300,000** |

# FY2019 Recommended: Bond $800,000

| | | | |
|---|---|---|---|
| **Project Number:** | FPS/B&G/2019/K/Request | **Budget Year:** | 2019 |
| **Project Title:** | Masonry Repointing - Stapleton Elementary School | **Scenario:** | Main 2019 |
| **Asset Type:** | SCHOOL BUILDINGS | **Budget Status:** | Department Request |
| **Department:** | C3-971 - Building & Grounds Department | **Regions:** | |
| **Project Type:** | Historic Building Structure | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | July 1, 2018 | **Project Partner:** | |
| **Est. Completion Date:** | August 31, 2018 | | |

## Description:

Masonry Repointing - Stapleton Elementary School

## Comments:

Please note that the original estimate is based upon the entire building. It remains to be seen once the designer does his full study which section of the buildings may or may not be worked on. This is because although some of the building was built in 1922, two other sections were built in the 1950's and in 1970 there was an addition of the library and gymnasium so that this brick exterior in those areas may not need upgrading so the million dollar request is just a placeholder based on B H & A's estimate.

April 2014 Town Meeting approved funding in the amount of $48,000.00 for the design portion of this project which is currently out to bid.

## Justification:

The Stapleton Elementary School is in need of exterior envelope upgrades as well as masonry repointing and steel lintel replacement as needed above windows to prevent damaged caused by moisture infiltration and support capital investments previously made to this historical building

Masonry Repointing at the Stapleton School has been deferred since 2014 due to limited funding. The original building is 1922 construction. The mortar joints between the brick masonry exterior façade is original to that construction. The entire exterior brick, mortar, flashing and sealants need to be assessed and upgraded as required in order to keep the building weather tight.

This historic building is in need of repointing and we request the funds to preserve this historic educational facility.
$970,000

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 800,000 | 0 | 800,000 |
| | **800,000** | **0** | **800,000** |

# FY2019 Recommended: Free Cash $250,000

| | | | |
|---|---|---|---|
| **Project Number:** | FPS/B&G/2019/L | **Budget Year:** | 2019 |
| **Project Title:** | Furnish New and Replace Outdated Furniture multiple schools | **Scenario:** | Main 2019 |
| **Asset Type:** | | **Budget Status:** | Department Request |
| **Department:** | C3-971 - Building & Grounds Department | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | July 1, 2018 | **Project Partner:** | |
| **Est. Completion Date:** | August 31, 2018 | | |

## Description:

Furnish New and Replace Outdated Furniture

## Comments:

In order to address District population growth at the elementary level, the King School has been reopened as an elementary school in FY17, and new furniture has been purchased. Current population growth is prompting changes in the District with the King School being converted to a ninth elementary school. Kindergarten students were placed at the King School in FY16 with an additional grade level added each subsequent year until it reaches capacity as a K-5 school in 5 years.

## Justification:

The majority of schools have the same furniture that was purchased during their construction in the sixties. Although there are many pieces of relatively new furniture in the schools, there is no way to refurbish the 255 classrooms that still use outdated furniture. Current teaching methods and modern technology in the elementary and middle school grades require the use of laptop and other devices.

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 250,000 | 0 | 250,000 |
| | **250,000** | **0** | **250,000** |

# FY2019 Recommended: Free Cash $75,000

| | | | |
|---|---|---|---|
| **Project Number:** | FPS/B&G/2019/MSBA-2 | **Budget Year:** | 2019 |
| **Project Title:** | Pre - Feasibility Study – Hemenway Elementary School - MOVED UP | **Scenario:** | Main 2019 |
| **Asset Type:** | | **Budget Status:** | Department Request |
| **Department:** | C3-971 - Building & Grounds Department | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | TBD | **Project Partner:** | |
| **Est. Completion Date:** | TBD | | |

## Description:

Pre-Feasibility Study (Hemenway Elementary School)

## Comments:

The District is considering replacement of the Hemenway Elementary School Building as part of the ongoing Capital Asset Planning and required maintenance of the overall building infrastructure. We believe Hemenway to be of the most need for replacement.

This Pre-Feasibility study is a first step in submitting a Statement of Interest to the MSBA for consideration of being invited into the MSBA reimbursement program.

## Justification:

The Massachusetts School Building Authority (MSBA) offers a reimbursement program for major renovation and new construction projects. The City of Framingham is eligible for almost 58 % reimbursement for costs related to those large construction projects.

A Pre-Feasibility study is required to evaluate the existing building, examine the demographic needs of the district and to determine whether a new school building or renovation to an existing building is warranted. It may also be determined that an alternative site is best as a new building may be constructed without interruption to the existing building and operations.

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 75,000 | 0 | 75,000 |
| | **75,000** | **0** | **75,000** |

# FY2019 Recommended: Free Cash $90,000

| | | | |
|---|---|---|---|
| **Project Number:** | FPS/B&G/2019/N/ | **Budget Year:** | 2019 |
| **Project Title:** | B & G Ford 450 Bucket Truck - Replacement | **Scenario:** | Main 2019 |
| **Asset Type:** | SCHOOL EQUIPMENT | **Budget Status:** | Department Request |
| **Department:** | C3-971 - Building & Grounds Department | **Regions:** | |
| **Project Type:** | School Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | Jul 1, 2018 | **Project Partner:** | |
| **Est. Completion Date:** | Aug 31, 2018 | | |

## Description:

The Buildings and Grounds Department is requesting the following truck:

Currently the Buildings and Grounds department owns one “Sky Jack” condor type boom lift. This piece of equipment is now 18 years old. We utilize the piece of equipment to gain access to school buildings and parking lot light up to 28’ in height. Currently we load this equipment onto a trailer and pull the trailer with a pick-up truck to whatever destination require performing needed work.

## Comments:

## Justification:

Instead of replacing this life-in-kind, we propose the purchase a bucket truck in order to eliminate the need of the boom lift having to be loaded and unloaded and transported. This would save time, money and improve safety concerns in many ways (i.e. transporting, loading / unloading replacement of antiquated equipment).

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 99,000 | 0 | 99,000 |
| | **99,000** | **0** | **99,000** |

# FY2019 Recommended: Free Cash $105,000

| | | | |
|---|---|---|---|
| **Project Number:** | FPS/B&G/2019/O/Request | **Budget Year:** | 2019 |
| **Project Title:** | Stapleton - Rubber Gym Floor and Walsh - Floors Refinishing | **Scenario:** | Main 2019 |
| **Asset Type:** | | **Budget Status:** | Department Request |
| **Department:** | C3-971 - Building & Grounds Department | **Regions:** | |
| **Project Type:** | School Building Structure | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | July 1, 2018 | **Project Partner:** | |
| **Est. Completion Date:** | Aug 31, 2018 | | |

## Description:

Stapleton - Rubber Gym Floor and Walsh - Floors Refinishing

## Comments:

The Walsh School wood gym floors requires sanding and refinishing and the Stapleton Elementary School rubber gym floor requires complete replacement.

Proposal costs include:

- Demolition
- Removal
- Installation

## Justification:

The gym at the Stapleton School is in desperate need of new gymnasium flooring. American Sport Floors proposes to remove and install a new gymnasium floor (4,895 square) at the Stapleton Elementary School and the Walsh School gymnasium floor requires sanding and refinishing.

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 105,000 | 0 | 105,000 |
| | **105,000** | **0** | **105,000** |

# FY2019 Requested: Deferred to FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | FIRE/Fire/2019/A | **Budget Year:** | 2019 |
| **Project Title:** | Engine 2 Fire Truck Asset Replacement | **Scenario:** | Main 2019 |
| **Asset Type:** | FIRE TRUCKS | **Budget Status:** | Department Request |
| **Department:** | C7-220 - Fire | **Regions:** | |
| **Project Type:** | Public Safety Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | Jul 2, 2018 | **Project Partner:** | |
| **Est. Completion Date:** | Jan 1, 2019 | | |

**Description:**

Replace Engine 2

**Comments:**

**Justification:**

In FY19, Engine 2 will have met the department's criteria for normal replacement. Due to the conditions at the Fire Station in Saxonville, current Engine 2 has significant frame rust/deterioration that will pose a safety risk to firefighters and has accelerating maintenance costs as a primary-response truck. The condition of the frame, and constant changes to fire truck standards of the National Fire Protection Association, make the cost of repairing and updating the current Engine 2 ineffective as a primary-response truck. Included in the replacement cost is the cost for an updated radio for the new Engine 2 compatible with the current radio system, and a set of tools for the new Engine 2 that meet today's fire department standards.

**Description:**

**Comments:**

**Project Forecast**

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 687,649 | 0 | 687,649 |
| | **687,649** | **0** | **687,649** |

October 11, 2073

Town of Framingham
Attn: Chief Hicks
10 Loring Drive
Framingham, MA 01702

RE: Budget Letter For Fire Pumper Calendar Year 2018

Chief Hicks,

Please accept this letter outlining what I will forecast as a budget number for the purchase of a Pierce Arrow XT® 1500 GPM Pumper in the calendar year 2018.

Using the pumper unit that is currently in your fleet and a three percent annual forecasted increase rates year over year, I will forecast the cost of a similar unit in 2014 to be six hundred forty-eight thousand, five hundred and eight dollars ($648,508.00).

Chief, as you well know many factors can come into play between now and the next twelve months as to cost drivers or even savings. Obviously if the cost are favorable this would be reflected in our bid presentation and the same if the market adjusted upward greater than three percent.

We are grateful that we have had the opportunity to serve the Framingham Fire Department, its Membership and its residence's. We look forward to a continued relationship and the opportunity to earn your future business. You are a valued customer to Minuteman Fire and Rescue Apparatus and Pierce Manufacturing.

If there is anything else that I can assist you with regarding this matter please feel free to contact me.

Bill O'Connor, Sales Manager
Minuteman Fire & Rescue Apparatus, Inc
2181 Providence Highway
Walpole, MA 02081
508-216-6366

_____
William K. O'Connor, Sales Manager

**Quote Number:** **QU0000419100**
**Effective:** 19 OCT 2017
**Effective To:** 18 DEC 2017

**Bill-To:**
FRAMINGHAM FIRE DEPT
10 LORING DR
FRAMINGHAM, MA 01702
United States

**Ultimate Destination:**
FRAMINGHAM FIRE DEPT
10 LORING DR
FRAMINGHAM, MA 01702
United States

Attention:
**Name:** Michael Dutcher
**Phone:** 508 532 5930

Sales Contact:
**Name:** George Voorhees
**Email:** gvoor@bellatlantic.net
**Phone:** 5088811503

**Contract Number:** ITT57 MA STATE
**Freight terms:** FOB Destination
**Payment terms:** Net 45

| Item | Quantity | Nomenclature | Description | List price | Your price | Extended Price |
|---|---|---|---|---|---|---|
| 1 | 1 | M25SSS9PW1AN | APX6500 UHF R2 MID POWER | $4,094.00 | $3,142.88 | $3,142.88 |
| 1a | 1 | W22BA | ADD: STD PALM MICROPHONE APEX | | | |
| 1b | 1 | G442AJ | ADD: O5 CONTROL HEAD | | | |
| 1c | 1 | G67BC | ADD: REMOTE MOUNT MID POWER | | | |
| 1d | 1 | G24AX | INT: 3 YEAR SERVICE FROM THE START LITE | | | |
| 1e | 1 | G444AE | ADD: APX CONTROL HEAD SOFTWARE | - | - | - |
| 1f | 1 | G490AD | ADD: ANT 1/4 WAVE 470-512 MHZ | | | |
| 1g | 1 | B18CR | ADD: AUXILARY SPKR 7.5 WATT | | | |
| 1h | 1 | GA00235AA | ADD: NO GPS ANTENNA NEEDED | - | - | - |
| 1i | 1 | Q811BS | DIGITAL CONVENTIONAL | | | |
| 2 | 640 | SVC03SVC0124D | SUBSCRIBER INSTALL - CUST LOCATION | $1.00 | $1.00 | $640.00 |
| (Notes)Field Installation and programming | | | | | | |

**Total Quote in USD** $3,782.88

1. Terms subject to ITT57 as modified by the clarifications and terms/conditions. For a full list of terms/conditions please contact you Motorola representative.

2. PO Issued to Motorola Solutions Inc. must:

>Be a valid Purchase Order (PO)/Contract/Notice to Proceed on Company Letterhead. Note: Purchase Requisitions cannot be accepted
>Have a PO Number/Contract Number & Date
>Identify "Motorola Solutions Inc." as the Vendor
>Have Payment Terms or Contract Number
>Be issued in the Legal Entity's Name
>Include a Bill-To Address with a Contact Name and Phone Number
>Include a Ship-To Address with a Contact Name and Phone Number
>Include an Ultimate Address (only if different than the Ship-To)
>Be Greater than or Equal to the Value of the Order
>Be in a Non-Editable Format

# FIREMATIC SUPPLY CO., INC.

23 Birch Street, Milford, Mass. 01757
Phone: 978-815-5181 FAX: (978) 422-9621
pcavalieri@firematic.com
WebSite: www.firematic.com

# Quote

| DATE | PAGE |
|---|---|
| 10/26/2017 | 1 |

QUOTE NUMBER
QT57761

EXPIRE DATE
11/30/2017

**Quoted To**
Deputy John Schultz
FRAMINGHAM FIRE DEPT.
10 Loring Drive
FRAMINGHAM, MA 01702

**Ship To**
FRAMINGHAM FIRE DEPT.
10 Loring Drive
FRAMINGHAM, MA 01702

| CUSTOMER NO. | CONTRACT NO. | PHONE NO. | SALESPERSON | CUSTOMER PO. NO. |
|---|---|---|---|---|
| 3259 | FIR-04 | (508)532-5930 | Pete Cavalieri | |

| LINE NO. | ITEM NUMBER | DESCRIPTION | QTY ORDERED | UNIT PRICE | EXTENDED PRICE |
|---|---|---|---|---|---|
| 1 | HUR272085000 | EDRAULC2 S 700E2 CUTTER PACKAGE | 1 | 11,103.40 | 11,103.40 |
| 2 | HUR271555000 | EDRAULIC SP555E2 SPREADER PACKAGE | 1 | 12,397.00 | 12,397.00 |
| 3 | HUR274085000 | R421E2 RAM W/EXL BATTERY & CHARGER | 1 | 8,673.00 | 8,673.00 |
| 4 | HUR272080910 | EDRAULIC DC BANK CHARGER | 1 | 1,715.00 | 1,715.00 |
| 5 | HUR272085412 | EDRAULIC2 110V E2 POWER SUPPLY W/PLUG | 2 | 735.00 | 1,470.00 |

**Comments** PRICING IS COMPLIANT TO THE MASS. STATE CONTRACT FIR-04

**Amount** 35,358.40

**By:** Pete Cavalieri

>Identify Tax Exemption Status (where applicable)
>Include a Signature (as Required)

3. Quotes are exclusive of all installation and programming charges (unless expressly stated) and all applicable taxes.

4. Prices quoted are valid for thirty(30) days from the date of this quote.

5. Unless otherwise stated, payment will be due within forty five day of invoice. Invoicing will occur concurrently with shipping. MOTOROLA DISCLAIMS ALL OTHER WARRANTIES WITH RESPECT TO THE ORDERED PRODUCTS, EXPRESS OR IMPLIED INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. MOTOROLA'S TOTAL LIABILITY ARISING FROM THE ORDERED PRODUCTS WILL BE LIMITED TO THE PURCHASE PRICE OF THE PRODUCTS WITH RESPECT TO WHICH LOSSES OR DAMAGES ARE CLAIMED. IN NO EVENT WILL MOTOROLA BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

# FY2019 Request: Deferred to FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | FIRE/Fire/2019/B | **Budget Year:** | 2019 |
| **Project Title:** | Incident Command Vehicle - Deputy Chief Car2 - Fire Apparatus Asset Replacement | **Scenario:** | Main 2019 |
| **Asset Type:** | FIRE DEPT CARS | **Budget Status:** | Department Request |
| **Department:** | C7-220 - Fire | **Regions:** | |
| **Project Type:** | Public Safety Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | Jul 2, 2018 | **Project Partner:** | |
| **Est. Completion Date:** | Feb 28, 2019 | | |

## Description:

Purchase a new SUV for use by the on-duty Deputy Chief (Shift Supervisor) to be used for incident command. This vehicle is housed at Station 5 (Concord Street) and responds 24 hours-per-day to all significant fire and rescue incidents in Town. It contains a radio bank and a command station for use at large scale and long duration incidents. The purchase would include 2 radios in addition to the vehicle, and the emergency lighting and department identification decal package.

## Comments:

## Justification:

Car 2 is high use and high mileage, and is therefore on an accelerated replacement schedule. The current Car 2 would be repurposed within the Fire Department fleet and allow the removal of the highest maintenance - oldest SUV from the current fleet.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 54,036 | 0 | 54,036 |
| | **54,036** | **0** | **54,036** |

MHQ
VEHICLES ■ EQUIPMENT ■ GEAR

# BUDGET ESTIMATE

**Framingham, City of**

| | | | |
|---|---|---|---|
| Contact Name: | Ken Cassidy, Mechanic | Date: | October 12, 2017 |
| Company/Dept: | Fire Dept. | Valid until : | |
| Street Address: | 10 Loring Drive | Customer #: | 12020 |
| City, State, Zip: | Framingham, MA 01702 | Contract: | N/A |
| Phone: | 508.532.5945 (desk) | Sales Rep: | Shawn Daoust |
| E-Mail: | ksc@framinghamma.gov | | |

| CONTRACT LINE REFERENCE | LINE DESCRIPTION | UNIT PRICE | QTY. | EXTENDED PRICE |
|---|---|---|---|---|
| U1G | Ford Expedition 4x4 XL Trim (100a) | $ 34,300.00 | 1 | $ 34,300.00 |
| 102a | Downgrade to Four Wheel Drive SSV | $ (2,163.10) | 1 | $ (2,163.10) |
| 99T / 446 | 3.5L V6 Twin Turbo EcoBoost Gas Engine with Auto. Transmission | $ - | 1 | $ - |
| PQ | Exterior Color = Race Red | $ - | 1 | $ - |
| CH | Cloth Seats (1st row), Vinyl Seats (2nd row) | $ - | 1 | $ - |
| 186 | Factory Running Boards | $ 421.95 | 1 | $ 421.95 |
| 65C | SSV Upgrade Package (20" alloys & different rear axle) | $ 1,018.50 | 1 | $ 1,018.50 |
| 53M | SYNC (Factory Bluetooth) | $ 213.40 | 1 | $ 213.40 |
| 536 | Heavy Duty Trailer Tow Package | $ 543.20 | 1 | $ 543.20 |
| | 2018 MY Budget Increase - ESTIMATE) | $ 4,120.07 | 1 | $ 4,120.07 |
| | **GBPC-Ford Contract ESTIMATE** | | | **$ 38,454.02** |
| | | | | |
| | ** We expect updated/valid pricing on this contract within 7 business days ** | | | |
| | | | | |
| | | | | |
| | MHQ Graphics Pkg. "C" Premium (does not include a Chevron) | $ 695.00 | 1 | $ 695.00 |
| | VentVisor Window Vents (4 piece) | $ 75.00 | 1 | $ 75.00 |
| front | WeatherTech Floor Liners (per row) | $ 125.00 | 1 | $ 125.00 |
| | | | | $ - |
| red | Whelen ION LED Warning Lights (per pair) grille | $ 365.00 | 2 | $ 730.00 |
| red | Whelen ION "V1" LED Warning Lights in grille | $ 225.00 | 2 | $ 450.00 |
| % disc. | Whelen Wig-Wag Headlight Flasher | $ 46.15 | 1 | $ 46.15 |
| | Install Wig-Wag Headlight Flasher | $ 35.00 | 1 | $ 35.00 |
| 1 B, 1 A w/ "36" | Whelen Liberty II SOLO LED Lightbar w/CenCom Controller | $ 2,327.00 | 1 | $ 2,327.00 |
| | GTT LED Emitter (built into Lightbar) | $ 1,375.00 | 1 | $ 1,375.00 |
| red | Whelen IONs (per pair) in 1/4 glass window | $ 365.00 | 2 | $ 730.00 |
| b r r a | Whelen ION LED Warning Lights (per pair) top rear window | $ 365.00 | 2 | $ 730.00 |
| w/r | Whelen LED Hide-a-ways (2 pair) tail lights | $ 455.00 | 1 | $ 455.00 |
| behind grille | Whelen Siren Speaker | $ 200.00 | 1 | $ 200.00 |
| | Havis C2410 Communications Console | $ 450.00 | 1 | $ 450.00 |
| | Havis 12v DC Triple Outlet in Console | $ 60.00 | 1 | $ 60.00 |
| | Havis C-ARM-102 Side Mount Arm-rest(s) | $ 68.00 | 2 | $ 136.00 |
| | Havis Dual Internal Cup Holder | $ 45.00 | 1 | $ 45.00 |
| | Magnetic Mic. Clip(s) | $ 41.00 | 2 | $ 82.00 |
| | Havis ChargeGuard 12v Electronic Timer | $ 100.00 | 1 | $ 100.00 |
| w r w | SoundOff LED Dome Lights on hatch with 2 switches | $ 50.00 | 3 | $ 150.00 |

| | | | | | |
|---|---|---|---|---|---|
| | Install 2-way Radio(s) | $ 195.00 | 1 | $ | 195.00 |
| hourly | MHQ Labor - Remove/Dispose of OEM Roof Rack | $ 95.00 | 1 | $ | 95.00 |
| | Whelen M2RC LED Warning Lights (1/side) near headlight | $ 355.00 | 1 | $ | 355.00 |
| | | | | $ | - |
| | **GBPC-Aftermarket Equipment Contract Total :** | | | **$** | **8,016.15** |
| | | | **Per Veh.** | $ | 46,470.17 |
| | | | **Qty. :** | | 1.00 |
| | | | **Net Investment :** | **$** | **46,470.17** |

## TERMS AND CONDITIONS

*This quote is valid for 60 days from the date of quote. Any purchase orders or approved quotes received outside of the 60 day quote period may be subject to price adjustments. By signing this quote, the customer is agreeing to pay, in full, for all items listed above. Any requests for changes, modifications, replacements, removals or additional items may be subject to additional fees and/or adjusted delivery dates.

The terms and conditions stated herein and the provisions of any agreement between MHQ and Buyer, if applicable, shall constitute the complete and only terms and conditions applicable to any and all purchases by Buyer from MHQ. Any additional and/or different terms and/or conditions printed anywhere including on, or with, Buyer's order shall be inapplicable in regard to any purchase by Buyer from MHQ.

## ORDER ACKNOWLEDGEMENT

**By signing this document you are agreeing to the above terms and conditions of this order from MHQ, Inc.**

x

**PRINT NAME**

x

**TITLE**

x

**SIGNATURE**

x

**DATE**

Quote provided by Shawn Daoust, Account Manager at MHQ - Public Safety Team
(508) 573-2625 or sdaoust@mhq.com

**Quote Number:** **QU0000419100**
**Effective:** 19 OCT 2017
**Effective To:** 18 DEC 2017

**Bill-To:**
FRAMINGHAM FIRE DEPT
10 LORING DR
FRAMINGHAM, MA 01702
United States

**Ultimate Destination:**
FRAMINGHAM FIRE DEPT
10 LORING DR
FRAMINGHAM, MA 01702
United States

Attention:
**Name:** Michael Dutcher
**Phone:** 508 532 5930

Sales Contact:
**Name:** George Voorhees
**Email:** gvoor@bellatlantic.net
**Phone:** 5088811503

**Contract Number:** ITT57 MA STATE
**Freight terms:** FOB Destination
**Payment terms:** Net 45

| Item | Quantity | Nomenclature | Description | List price | Your price | Extended Price |
|---|---|---|---|---|---|---|
| 1 | 1 | M25SSS9PW1AN | APX6500 UHF R2 MID POWER | $4,094.00 | $3,142.88 | $3,142.88 |
| 1a | 1 | W22BA | ADD: STD PALM MICROPHONE APEX | | | |
| 1b | 1 | G442AJ | ADD: O5 CONTROL HEAD | | | |
| 1c | 1 | G67BC | ADD: REMOTE MOUNT MID POWER | | | |
| 1d | 1 | G24AX | INT: 3 YEAR SERVICE FROM THE START LITE | | | |
| 1e | 1 | G444AE | ADD: APX CONTROL HEAD SOFTWARE | - | - | - |
| 1f | 1 | G490AD | ADD: ANT 1/4 WAVE 470-512 MHZ | | | |
| 1g | 1 | B18CR | ADD: AUXILARY SPKR 7.5 WATT | | | |
| 1h | 1 | GA00235AA | ADD: NO GPS ANTENNA NEEDED | - | - | - |
| 1i | 1 | Q811BS | DIGITAL CONVENTIONAL | | | |
| 2 | 640 | SVC03SVC0124D | SUBSCRIBER INSTALL - CUST LOCATION | $1.00 | $1.00 | $640.00 |
| (Notes)Field Installation and programming | | | | | | |

**Total Quote in USD** $3,782.88

1. Terms subject to ITT57 as modified by the clarifications and terms/conditions. For a full list of terms/conditions please contact you Motorola representative.

2. PO Issued to Motorola Solutions Inc. must:

>Be a valid Purchase Order (PO)/Contract/Notice to Proceed on Company Letterhead. Note: Purchase Requisitions cannot be accepted
>Have a PO Number/Contract Number & Date
>Identify "Motorola Solutions Inc." as the Vendor
>Have Payment Terms or Contract Number
>Be issued in the Legal Entity's Name
>Include a Bill-To Address with a Contact Name and Phone Number
>Include a Ship-To Address with a Contact Name and Phone Number
>Include an Ultimate Address (only if different than the Ship-To)
>Be Greater than or Equal to the Value of the Order
>Be in a Non-Editable Format

>Identify Tax Exemption Status (where applicable)
>Include a Signature (as Required)

3. Quotes are exclusive of all installation and programming charges (unless expressly stated) and all applicable taxes.

4. Prices quoted are valid for thirty(30) days from the date of this quote.

5. Unless otherwise stated, payment will be due within forty five day of invoice. Invoicing will occur concurrently with shipping. MOTOROLA DISCLAIMS ALL OTHER WARRANTIES WITH RESPECT TO THE ORDERED PRODUCTS, EXPRESS OR IMPLIED INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. MOTOROLA'S TOTAL LIABILITY ARISING FROM THE ORDERED PRODUCTS WILL BE LIMITED TO THE PURCHASE PRICE OF THE PRODUCTS WITH RESPECT TO WHICH LOSSES OR DAMAGES ARE CLAIMED. IN NO EVENT WILL MOTOROLA BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

# FY2019 Requested: Deferred to FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Highway/2019/I | **Budget Year:** | 2019 |
| **Project Title:** | Culverts Inventory and Assessment | **Scenario:** | Main 2019 |
| **Asset Type:** | STORM DRAIN | **Budget Status:** | Department Request |
| **Department:** | C4-411 - Engineering | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

A complete and accurate inventory, and the documentation and understanding of the condition and performance of culverts will be prepared, which are key stormwater assets for many roadways and neighborhoods across Framingham.

## Comments:

In addition to being a critical component of roads, the inventory fieldwork and documentation of this small subset of stormwater assets can help establish standards for the collection of data for other of these assets, and better position Framingham for the long anticipated update to the MS4 permit.

## Justification:

Very few culverts (and other stormwater assets) have been addressed in Framingham, far less than for other infrastructure in the last couple decades. Culverts play a very important role in the conveyance and containment of floodwaters, and the connectivity and preservation of natural resources and biodiversity. The Town owns approximately 200 culverts from 20 to 100 years old, with most installed prior to current regulations for flooding reduction and stream crossings. As with other aging infrastructure, deterioration of culverts continues, with repairs, rehabilitation or replacement likely to soon become critical for an unknown number of them and the related road(s).

To know what's required, DPW needs information to forecast remaining service life, and a plan to address any deficiencies found, including integration with the related roadway needs. That includes an assessment of potential failures and the effects on traffic, public safety, property damage, flood fighting, emergency construction and others. This will assist in prioritizing capital investments, as well as qualifying and positioning for funding from agencies such as FEMA, MassDOT, and DCR who have annually provided funding opportunities for culvert enhancements.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 175,000 | 0 | 175,000 |
| | **175,000** | **0** | **175,000** |

November 5, 2017

Ref: 13484.19

Eric V. Johnson, P.E.
Town Engineer
Framingham Dept of Public Works
110 Western Avenue
Framingham, MA 01702

Re: FY-2019 Capital Improvements
Culvert Inventory & Assessment

Dear Mr. Johnson,

The Town of Framingham owns approximately 190 culverts that range in age from 20 to 100 years old. Most culverts in Town were built previous to and do not meet current FEMA regulations for flood mitigation or state stream crossing standards. VHB has prepared this letter to provide a description and cost estimate for the inventory and assessment of the Town's existing culverts.

The DPW is in need of an evaluation of the condition and performance of existing culverts, a means to forecast their remaining service life, and a plan to address any deficiencies found. A proactive assessment of culverts will help the Town extend the service life of these culverts and prevent potential failures, which potentially have significant impacts on traffic, public safety, and property damage. An updated culvert inventory and assessment will assist the Town with prioritizing capital investment in improvements.

The total costs associated with the culvert inventory and assessment of the Town's existing culverts is estimated to be $175,000.00.

If you have any questions, or require additional information, please do not hesitate to contact me.

Sincerely,

Vanasse Hangen Brustlin, Inc.

Tracie Lenhardt

Tracie Lenhardt, P.E.

Senior Project Manager

Engineers | Scientists | Planners | Designers

101 Walnut Street
PO Box 9151
Watertown, Massachusetts 02471
P 617.924.1770
F 617.924.2286

# FY2019 Requested: Deferred to FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | PARK/ParkRec/2019/B | **Budget Year:** | 2019 |
| **Project Title:** | F450 4x4 Crew Cab Dump Truck 16,000 GVW | **Scenario:** | Main 2019 |
| **Asset Type:** | | **Budget Status:** | Department Request |
| **Department:** | C7-650 - Parks & Recreation | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2010 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

These funds will be used to purchase a F450 4x4 Crew Cab Dump Truck to replace a 2007 Ford F450 Regular Cab Dump Truck with 84,999 miles, equating to 127,499 engine miles.

## Comments:

## Justification:

The Parks Maintenance Department has a limited amount of vehicles within its fleet to support the operational demands. This vehicle, listed within our fleet as Truck 12, is a F450 Regular Cab Dump Truck used to transport staff and equipment on a daily basis with additional tool storage capacities (two large tool boxes attached to truck). Due to its current condition and limited operating capacity, this vehicle is not able to be utilized to its full potential. As a result, Truck 12 has been relegated to minimal daily usage.

The vehicle has sustained major rust damage to its truck bed that is costly or beyond repair. During the winter months, Truck 12 has been used in snow removal/treatment operations. As part of this, Truck 12 carries a bed-mounted sander during these months to treat Town properties. As a result of operating in support of snow removal efforts during the past 10 years, this vehicle has sustained significant salt erosion to its frame and bed mounts. Recently, this damage has resulted in multiple holes within the trucks frame and body, rendering Truck 12 incapable of continuing in this capacity.

In addition to these deficiencies, Truck 12 will also require the following repairs to remain in operation:

- Replacement of both sets of rear springs;
- Replacement of ball joints;
- Replacement of shifter cable and assembly;
- Replacement of shocks;
- Replacement of rotted break lines;
- Replacement of tie-rod ends.

After 10 years of operational service, the overall physical and mechanical condition of Truck 12 is significantly degraded, requiring replacement.

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 72,531 | 0 | 72,531 |
| | **72,531** | **0** | **72,531** |

| 2018 F450 4x4 Crew Cab Dump | |
|---|---|
| Estimate from MHQ, October 2017 | $65,938.00 |
| **Sub Total** | |
| 10% Estimated Cost Escalation for FY19 Contract | $6,593.80 |
| **Total** | **$72,531.80** |

Price per quote Greg Keith at MHQ
* Price Escalation due to anticipated 2018 contract

# Framingham
# Parks and Recreation Department

**475 Union Avenue · 508 532 5960**

## Memorandum

**From the desk of Donald Capen**

November 4, 2017

**RE: Capital Budget Vehicle Replacement – 2007 Ford F450 Regular Cab Dump Truck**

Chris,

As requested, the following is a description of the current issues with the 2007 Ford F450 4x4 Regular Cab Dump Truck. Currently, this vehicle has 84,999 miles on the odometer.

Due to the age of this vehicle and current condition, it is utilized minimally on a daily basis. Current issues requiring attention, labor and expense are:

- Replacement of both sets of rear springs;
- Replacement of ball joints;
- Replacement of shifter cable and assembly;
- Replacement of shocks;
- Replacement of rotted break lines;
- Replacement of tie-rod ends.

During the winter months, Truck 12 has been used in snow removal/treatment operations. As part of this, Truck 12 carries a bed-mounted sander during these months to treat Town properties. As a result of operating in support of snow removal efforts during the past 10 years, this vehicle has sustained significant salt erosion to its frame and bed mounts. Recently, this damage has resulted in multiple holes within the trucks frame and body, rendering Truck 12 incapable of continuing in this capacity.

After 10 years of operational service, the overall physical and mechanical condition of the vehicle is significantly degraded. Based on an overall assessment of the vehicle, I believe it has reached its useful life expectancy and would recommend replacement.

Regards,

Donald Capen
Mechanic

PARKS
TOWN OF FRAMINGHAM, MA
& RECREATION

MHQ
VEHICLES ■ EQUIPMENT ■ GEAR

# QUOTE

## CUSTOMER

| | | | |
|---|---|---|---|
| Contact Name: | Town of Framingham | Date: | 10/31/2017 |
| Company/Dept | Parks Department | Valid for: | 60 Days* |
| Street Address: | 475 Union Ave | Customer #: | 10142 |
| City, State, Zip: | Framingham, MA 01702 | Contract: | GBPC/BAPERN 2015 |
| Phone: | 508-532-5960 | Sales Rep: | GAK |
| E-Mail: | cam@framinghamma.gov | | |

| CONTRACT LINE REFERENCE | LINE DESCRIPTION | UNIT PRICE | QTY. | EXTENDED PRICE |
|---|---|---|---|---|
| | | | | $0.00 |
| W4H | 2018 F450 Chassis 4X4 Crew Cab 145"WB, 60"CA, 16,000 GVWR | $38,300.00 | 1 | $38,300.00 |
| | SVO Color: Green Gem | $623.00 | 1 | $623.00 |
| 99T | 6.7 Liter Power Stroke diesel engine | $8,618.00 | 1 | $8,618.00 |
| | 4:10 Limited slip axle | $349.00 | 1 | $349.00 |
| TGB | 225/70RX19.5 BSW Traction Tires, Front & Rear | $208.00 | 1 | $208.00 |
| 473 | Snowplow prep package | $179.00 | 1 | $179.00 |
| 41H | Engine block heater | $87.00 | 1 | $87.00 |
| 62R | Transmission PTO provision | $271.00 | 1 | $271.00 |
| 98R | Operator commanded diesel regeneration | $242.00 | 1 | $242.00 |
| 213 | Electronic shift on the fly four wheel drive | $179.00 | 1 | $179.00 |
| 52B | Trailer brake controller | $261.00 | 1 | $261.00 |
| 18B | Black Molded Running Boards, Crew Cab | $431.00 | 1 | $431.00 |
| | 6-Speed Automatic Transmission | included | | |
| | HD vinyl bench seat, HD vinyl flooring, Air conditioning and spare tire | included | | |
| | AM/FM radio with digital clock & four upfitter switches | included | | |
| 1.09 | Whelen Super LED D.O.T. (3) light warning system , model DOT3702A | $1,745.00 | 1 | $1,745.00 |
| 3.09 | Whelen (2) LED Vertex hideaway system, model # VTX609-2 | $235.00 | 1 | $235.00 |
| 4.03 | Transmission PTO driven central hydraulic system | $4,395.00 | 1 | $4,395.00 |
| 5.01 | 2 to 3 cubic yard dump body w/ class-30 hoist | $8,695.00 | 1 | $8,695.00 |
| 5.42 | Manually retracted asphalt canvas all | $450.00 | 1 | $450.00 |
| 7.07 | Reinforced plate mounted ball and pintle hook combo | $495.00 | 1 | $495.00 |
| 7.05 | Trailer plug, wired | $175.00 | 1 | $175.00 |
| 8.08 | Motorola CDM1250, 64 channel, Alpha display, 45 Watt, VHF High Band front mount radio frequency range136-174 MHz model # AAM25KKD9AA2 | | 1 | |
| | | | | |
| | | | TAX: | |
| | | | TOTAL: | $65,938.00 |

### TERMS AND CONDITIONS

*This quote is valid for 60 days from the date of quote. Any purchase orders or approved quotes received outside of the 60 day quote period will be subject to price adjustments. By signing this quote, the customer is agreeing to pay, in full, for all items listed above. Any requests for changes, modifications, replacements, removals or additional items may be subject to additional fees and/or adjusted delivery dates.

M.G.L c. 30B applies to the procurement of all commodities quoted. Contract items have been collectively purchased pursuant to M.G.L c 30B sec 1c and M.G.L c.7 sec 22B. The government body is responsible to determine the applicibility of M.G.L. c30B to off contract items, but not limited to, off contract items that have already been properly procured under M.G.L. c30B sec 1c and M.G.L. c7 sec 22A (purchases from a vendor on contract with the Commonwealth), other contracts procured under M.G.L. c30B sec 1c and M.G.L. c. 30B contract between the vendor and the jurisdiction. All off contract items must be proccured under M.G.L. c. 30B.

The terms and conditions stated herein and the provisions of any agreement between MHQ and Buyer, if applicable, shall constitute the complete and only terms and conditions applicable to any and all purchases by Buyer from MHQ. Any additional and/or different terms and/or conditions printed anywhere including on, or with, Buyer's order shall be inapplicable in regard to any purchase by Buyer from MHQ.

### ORDER ACKNOWLEDGEMENT

By signing this document you are agreeing to the above terms and conditions of this order from MHQ, Inc.

x

PRINT NAME

x

TITLE

x

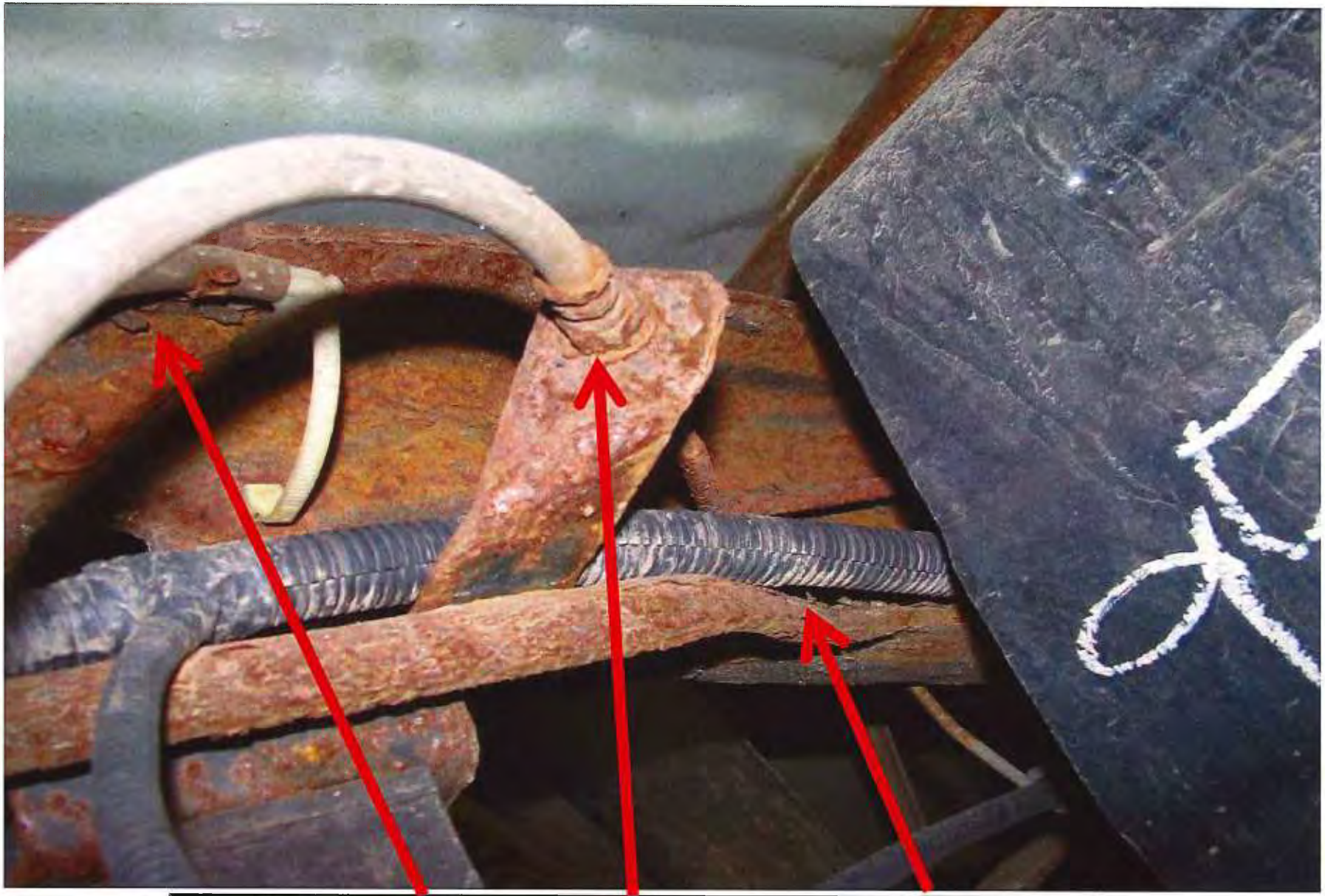
SIGNATURE

Quote provided by Greg Keith, Key Accounts Manager at MHQ
(508) 954-2225 or gkeith@mhq.com

# 2007 F450 Regular Cab Dump Truck

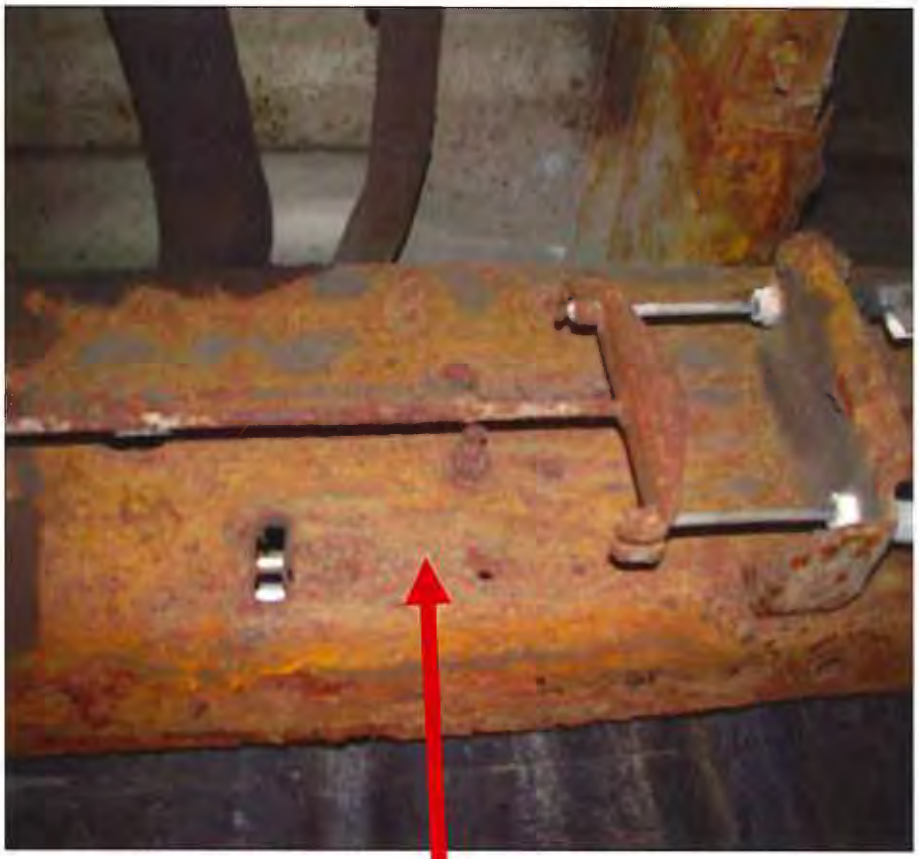
Choose FRAMINGHAM

Rust and perforation of truck body that is beyond repair. Vehicle is unable to transport loads due to the damage.



Rotting break lines requiring full replacement

Rust and perforated bed mounts leading to load instability



Corrosion of emergency break line require replacement

Age, rust and damage to ball joint and wheel seal, requiring replacements

# FY2019 Requested: Deferred to FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | FPS/B&G/2019/G | **Budget Year:** | 2019 |
| **Project Title:** | ADA Upgrades for Compliance (Various Schools as needed) | **Scenario:** | Main 2019 |
| **Asset Type:** | | **Budget Status:** | Department Request |
| **Department:** | C3-971 - Building & Grounds Department | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

Upgrades to Curbs, Sidewalks, Handicap Ramps/Lifts, Railings, Bathroom Partitions, Hardware, Signage and Removal of all Architectural Barriers and Design for Compliance

- Partitions
- Hardware
- Signage
- Bathrooms
- Knobs
- Door Handles
- Design for Compliance

## Justification:

Each year we address architectural barriers that exist at multiple school buildings and sites Although we have performed many upgrades over the past twelve years, there continues to be items such as door & room signs, door handles, toilet partitions and walk ways that need to be upgraded so they are compliant. Areas such as school courtyards require ramps; toilet rooms require proper clearance to provide proper access in some of them.

As in the past, the Town Unit Pricing Contracts will be utilized for sidewalk repairs at multiple schools.
FY20:
$150,000

FY21 - FY25:

Continue with ADA upgrades at various schools.
$ 200,000 each year

Please note that ADA site upgrades must be completed during the months of July and August when students are not in the schools. Requested amounts reflect the amount of construction work that can be completed in this short time frame.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 300,000 | 0 | 300,000 |
| | **300,000** | **0** | **300,000** |

# FY2019 Recommended: Deferred to FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | FPS/B&G/2019/I | **Budget Year:** | 2019 |
| **Project Title:** | Mechanical, Electrical, Plumbing Upgrades - All Schools - Multiple Systems - Phased Project-FY19 | **Scenario:** | Main 2019 |
| **Asset Type:** | | **Budget Status:** | Department Request |
| **Department:** | C3-971 - Building & Grounds Department | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | Jul 1, 2018 | **Project Partner:** | |
| **Est. Completion Date:** | Jun 30, 2019 | | |

**Description:**

Mechanical, electrical and plumbing upgrades in all schools in order to properly maintain buildings.

**Comments:**

**Justification:**

To properly maintain school buildings so they are safe, efficient and sound, mechanical, electrical and plumbing upgrades on multiple systems need to be performed. All schools will require upgrades in the near future. Below is a prioritized list of pumps, drives, motors, lighting, burners and appurtenances.

**Description:**

**Comments:**

**Project Forecast**

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 100,000 | 0 | 100,000 |
| | **100,000** | **0** | **100,000** |

# Mechanical and Electrical Systems Conceptual Design Narrative

# For

**Framingham High School**
115 A Street
Framingham, MA

October 5, 2017

Prepared by:

Consulting Engineering Services, LLC

128 Carnegie Row Suite 204, Norwood, Massachusetts, 02062

CES PN 2017035.00

# Scope of Work

## I. EXECUTIVE SUMMARY

The following narrative describes the mechanical and electrical systems associated with the addition of two air cooled chillers at the Framingham High School in Framingham, MA.

## II. APPLICABLE CODES AND STANDARDS

The mechanical and electrical systems will be provided in conformance with the requirements of the following codes and regulations and all applicable local authority requirements.

A. 2016 Massachusetts State Building Code

B. 2016 Massachusetts State Fire Safety Code

C. 2009 International Mechanical Code

D. 2015 International Energy Conservation Code

E. NFPA, All applicable code sections, Latest Version

F. ASHRAE 90.1-2013

G. ASHRAE 62.1

H. 2014 National Electric Code

## III. MECHANICAL SYSTEMS

## IV. Cooling Plant

1. There will be the addition of two high efficiency air cooled chillers on the existing roof. Each chiller will have a nominal capacity of 300 Tons and two compressors. Each chiller shall be provided with an oversized condenser coil to provide high efficiency. Each chiller shall be sized for nominal 10°F delta T (44°F supply and 54°F return temperatures) for energy efficiency.

2. The new chillers will connect to existing capped chilled water piping located in the "Basement J Wing Boiler Room". New chilled water piping will extend from the "Basement J Wing Boiler Room" to the two new chillers to be located on the roof of Wing J.

3. The existing system is a dual temperature change over system from hot water to chilled water. Existing pumps located in the "Basement J Wing Boiler Room" will be utilized for chilled water distribution.

4. Chilled water system shall operate with 30% propylene glycol/water solution.

5. Steel Dunnage will be needed to support the installation of the two new chillers.

6. Drain and refill system with 30% propylene glycol/water solution.

Materials and Methods for HVAC Systems Shall Include:

1. All motors 2 HP and larger shall be high efficiency and provided with VFD.

2. Provide glass fiber insulation for all hydronic piping aluminum jacket on exterior piping. Insulation thicknesses shall exceed "energy code" as listed above.

3. Provide firestopping around mechanical penetrations in accordance with fire stopping requirements. System shall be capable of maintaining against flame and gases. System shall be UL listed and comply with ASTM E814.

4. Provide mechanical identification for mechanical systems. Identification shall comply with ANSI A13.1.

5. All pipe connections shall be installed to allow for freedom of movement of the piping during expansion and contraction without springing. Swing joints, expansion loops and expansion joints with proper anchors and guides shall be provided where shown.

6. Provide vibration isolation for hydronic piping and equipment.

7. Piping 2-1/2" and over shall be ASTM A 53; Schedule 40 black steel pipe.

8. All equipment served by hydronic piping shall have isolation valves on the supply and return lines. Isolation valves shall also be provided at branch take-offs.

9. Testing, Adjusting and Balancing: TAB shall be performed for all water systems in accordance with Associated Air Balance Council (AABC) and Natural Environmental Balancing Bureau (NEBB).

10. Chemical water treatment system with one year maintenance agreement shall be provided for hydronic loops.

**HVAC Controls – Central Building Management System (BMS)**

1. Two New Chillers shall connect to existing Building Management System (BMS).

**Commissioning**

1. Provide commissioning of primary chilled water system including, but not limited to, the new chillers, the existing primary chilled water pumps and the heating and cooling change over valves.

2. Provide commissioning of isolation valves serving heating only equipment (i.e. cabinet unit heaters, etc.)

# V. ELECTRICAL SYSTEMS

## VI. Electric Service Evaluation

1. The corresponding wing of the high school building is currently served with a 480/277 volt, 3 phase, 4 wire electric service rated for 3000 amperes. The service entrance and main distribution equipment consists of a Siemens switchboard with a combined main circuit breaker and utility metering section combined with two branch circuit breaker distribution sections. The distribution sections contains space provision for (2) large frame 800 ampere circuit breakers in each.

2. Upon review of the available electric utility demand information it has been determined that the existing service experienced a high value of 310.0 kW during the month of July 2016. The NEC allows the usage of this number taken at 125% to represent the existing connected load. This number can also be utilized to determine the spare capacity of the existing service. Taking 290.0 kW at .95 power factor equates to 368.0 amperes; this value at 125% equals 459.0 amperes, therefore the spare capacity of the existing service equals 2,541.0 amperes.

3. The new load representing the addition of the proposed HVAC equipment equals 950.0 kW, or approximately 1,142.0 amperes. This value is substantially less than the 2,541.0 amperes previously determined as the spare capacity therefore it will acceptable to add the new equipment load to the existing service.

## VII. Electrical Distribution

1. To support the proposed HVAC Chiller equipment (2) new 480 volt 3 phase, 3 wire feeders rated for 800 amperes each shall be extended from the existing switchboard MSB2 distribution sections in the basement level to the proposed chiller equipment location on the roof. To provide this requirement the following will be provided:

    a. Two 800 ampere 3 pole solid state circuit breakers shall be provided and installed within the available space of each distribution section. It should be noted that only one device will be installed in each section to distribute the new load between the two sections. The circuit breakers shall be Siemens Type KMHD with LSI solid state programmer.

    b. Two feeders shall be required to dedicate individual electric feeds to each chiller. Each feeder shall consist of (2) sets of 3#500 kcmil& #1/0 ground in each. The feeders shall be pathed parallel to new piping. Conduit inside the building shall be EMT conduit. Exterior conduit shall be EMT with compression fittings.

2. Branch circuits shall be installed in EMT conduit. EMT conduit shall be used to the first device in a branch circuit and shall be used in all masonry or CMU partitions. Type MC cable shall be allowed but limited to concealed spaces above finished ceilings or in drywall type partitions after EMT connection has been provided to the first piece of equipment or device. The following provisions shall be included:

    a) Circuits for all HVAC equipment as required. 208 volt wiring to control panels, control transformers, etc shall be provided by the electrician while low voltage control wire shall be provided under Division 23.

b) Maintenance GFCI and weatherproof outlets located on the roof within 25ft of HVAC rooftop equipment.

## VIII. Materials and Methods

1. Include the following basic materials and methods of construction:

   a) Wiring will be THHN/THWN copper, installed in EMT conduit to first device or exposed and MC cable for and remainder of circuit, and concealed work.

   b) Receptacles shall be specification grade, NEMA 5-20R etc.

   c) Disconnect switches will be fusible heavy-duty type. NEMA 1 or 3R as required for the installation location.

   d) Circuit breakers will be fixed element, thermal magnetic type.

   e) Branch circuit breakers shall be bus mounted with factory provided hardware strap kits.

   f) Branch circuit breakers shall be provided that conform to the existing short circuit current ratings and design of the existing electrical distribution.

   g) All conduits, circuits and devices will be labeled.

   h) Conduits above roof or located in exterior conditions shall be EMT with compression fittings. Flexible conduit connections to equipment shall be weatherproof flexible metal conduit.

## IX. Cost Estimate

a) Chiller equipment only shall be approximately $145,000 each for a total of $290,000. With labor, piping and installation the total will be $497,258.

b) Electrical equipment as outlined above for (2) 800 feeders, (2) switchboard circuit breakers, roof penetrations, fusible disconnects and maintenance receptacles at each chiller unit, branch wiring to each chiller controller shall be approximately $185,100.

c) Grand total (mechanical plus electrical etc.) of $874,283.

Framingham High School Chiller Addition MEP Cost Estimate

| 8" Chilled Water piping | Horizontal | Vertical | Total(4 pipes total) | Total (per lin ft or quantity) | Total |
|---|---|---|---|---|---|
| Basement | 10 | 10 | 80 | | |
| Lower Boiler Rm | 55 | 10 | 258 | | |
| First | | 10 | 40 | | |
| Roof | 120 | | 480 | | |
| | | Total length | 858 | 125 | $ 106,821 |
| Fittings | | | | | |
| 90 degree elbow | | | 10 | 446 | $ 4,460 |
| Valves(pg 263) | | | 4 | 3710 | $ 14,840 |
| Temp guage (p275) | | | 2 | 175 | $ 350 |
| pressure guage(p 274) | | | 2 | 356 | $ 712 |
| Chiller( material only) | | | 2 | 145000 | $ 290,000 |
| Chiller labor install(p 385) | | | 2 | 9475 | $ 18,950 |
| Testing and balancing(p 267) | | | | | $ 4,500 |
| Steel Dunnage | | | | | $ 15,000 |
| Hoisting (truck mounted lattice boom truck rental one day p621) | | | 1 | 1625 | $ 1,625 |
| Drain and refill glycol system | | | | | $ 40,000 |
| Electrical | | | Qty or Lin Ft | Cost per unit | |
| Switchboard Circuit Breakers, installed Qty | | | 2 | 16000 | $ 32,000 |
| Feeders - 800 ampere - Lin ft of (2) 4"C, 3#500 kcmil +G | | | 760 | 190 | $ 144,400 |
| Receptacles WP, GFI | | | 2 | 350 | $ 700 |
| Sleeving, Coring, Sealing for Conduits | | | 16 | 500 | $ 8,000 |
| Mechanical Subtotal | | | | | $ 497,258 |
| Electrical Subtotal | | | | | $ 185,100 |
| shop drawings | | | | | $ 3,000 |
| Permitting | | | $15/$1000 | | $ 12,439.25 |
| Commissioning | | | @1% total | | $ 8,293 |
| General Conditions | | | @4% of estimate | | $ 30,156 |
| Existing Conditions | | | @0.75% of estimate | | $ 5,654 |
| Total +10% Estimate Contingency | | | | | $ 753,894 |
| Total +10% Construction Contingency | | | | | $ 829,283 |
| Design (soft costs) | | | | | $ 45,000 |
| Grand Total | | | | | $ 874,283 |

# Mechanical and Electrical Systems Conceptual Design Narrative

# For

**Miriam F. McCarthy Elementary School**
8 Flagg Drive
Framingham, MA

October 5, 2017

Prepared by:

Consulting Engineering Services, LLC

128 Carnegie Row Suite 204, Norwood, Massachusetts, 02062

CES PN 2017036.00

# Scope of Work

## I. EXECUTIVE SUMMARY

Consulting Engineering Services has been retained by the Town of Framingham to provide a schematic design for the mechanical and electrical systems for the addition of Air Conditioning to the Miriam F. McCarthy Elementary School in Framingham, MA. The existing building is located at 8 Flagg Drive; the existing classrooms in the building are approximately 34,500 $ft^2$. This study includes recommendations for adding cooling at the classrooms only and electrical design to support the cooling addition.

## II. APPLICABLE CODES AND STANDARDS

The mechanical and electrical systems will be provided in conformance with the requirements of the following codes and regulations and all applicable local authority requirements.

A. 2016 Massachusetts State Building Code

B. 2016 Massachusetts State Fire Safety Code

C. 2009 International Mechanical Code

D. 2015 International Energy Conservation Code

E. NFPA, All applicable code sections, Latest Version

F. ASHRAE 90.1-2013

G. ASHRAE 62.1

H. 2014 National Electric Code

## III. MECHANICAL SYSTEMS:

## IV. Cooling Plant

Variable Refrigerant Volume

1. The cooling plant for space cooling will consist of a Variable Refrigerant Flow (VRF) system. The ventilation air will be via the existing unit ventilators in each classroom.

2. Class wing first floor area A will be provided with approximately 20 Tons of air cooled roof mounted VRF heat pump condensing units. The condensing unit will consist of a two condensing units twinned together. The indoor and outdoor units will be connected via refrigerant piping.

3. Class wing first floor area B will be provided with approximately 20 Tons of air cooled roof mounted VRF heat pump condensing units. The condensing unit will consist of a two condensing units twinned together. The indoor and outdoor units will be connected via refrigerant piping.

4. Class wing Second floor area A will be provided with approximately 20 Tons of air cooled roof mounted VRF heat pump condensing units. The condensing unit will consist of a two

condensing units twinned together. The indoor and outdoor units will be connected via refrigerant piping.

5. Class wing Second floor area B will be provided with approximately 20 Tons of air cooled roof mounted VRF heat pump condensing units. The condensing unit will consist of a two condensing units twinned together. The indoor and outdoor units will be connected via refrigerant piping.

6. Existing addition first floor will be provided with approximately 24 Tons of air cooled roof mounted VRF heat pump condensing units. The condensing unit will consist of a two condensing units twinned together. The indoor and outdoor units will be connected via refrigerant piping.

7. Addition Second floor area will be provided with approximately 20 Tons of air cooled roof mounted VRF heat pump condensing units. The condensing unit will consist of a two condensing units twinned together. The indoor and outdoor units will be connected via refrigerant piping.

8. Addition First floor area will be provided with approximately 18 Tons of air cooled roof mounted VRF heat pump condensing units. The condensing unit will consist of a two condensing units twinned together. The indoor and outdoor units will be connected via refrigerant piping.

9. The individual classroom spaces will all be served by multiple 2'x2' cassette type variable refrigerant flow (VRF) air handlers. The VRF air handlers will be heating and cooling units capable of heat recovery. VRF air handlers shall be fed by branch selector boxes, each box shall serve multiple air handlers and be connected to one of the rooftop heat pump units. There will be approximately 130 indoor VRF air handlers, 7 branch selector boxes, 33 Thermostats. There will be approximately seventy 1.25 Ton, fifty nine 1.0 Ton, and one 0.75 Ton 2'x2' cassette type units.

## V. General Mechanical

1. Connect to existing Building Management System (BMS) installed at the building.
    a) The BMS shall integrate to the VRF system controls and shall control the indoor VRF unit mode and setpoint. This will require a BACnet controller and expansion controller.

## VI. Materials and Methods:

a) All motors provided shall be high efficiency or better.

b) Provide all HVAC equipment with extra set of filters.

c) Seismic restraints shall be installed as required per the State of Massachusetts Building Code. This includes piping and equipment. The contractor shall engage a qualified structural engineer to design the seismic restraint systems.

d) Provide flexible elastomeric insulation on all refrigerant piping with aluminum jacket on exterior piping. Insulation shall be installed to meet the Energy Code.

e) Provide firestopping around mechanical penetrations in accordance with fire stopping requirements. System shall be capable of maintaining against flame and gases. System shall be UL listed and comply with ASTM E814.

f) Provide mechanical identification for mechanical systems. Identification shall comply with ANSI A13.1.

g) All pipe connections shall be installed to allow for freedom of movement of the piping during expansion and contraction without springing. Swing joints, expansion loops and expansion joints with proper anchors and guides shall be provided by the Contractor where necessary.

h) Provide vibration isolation for piping and equipment.

i) Refrigerant piping shall be ASTM B280 (ACR) copper tubing with brazed joints.

j) The contractor shall provide testing, adjusting and balancing (TAB) services for the HVAC systems.

## VII. ELECTRICAL SYSTEMS

## VIII. Electric Service Evaluation

1. The building is currently served with a 480/277 volt, 3 phase, 4 wire electric service rated for 1600 amperes. The service entrance and main distribution equipment consists of a Square D Company QED2 style switchboard with a combined main circuit breaker and utility metering section combined with a single branch circuit breaker distribution section. The distribution section contains space provisions to install approximately (9) 225 ampere frame circuit breakers.

2. Upon review of the available electric utility demand information it has been determined that the existing service experienced a high value of 226.0 kW during the month of July 2016. The NEC allows the usage of this number taken at 125% to represent the existing connected load. This number can also be utilized to determine the spare capacity of the existing service. Taking 226.0 kW at .95 power factor equates to 286.0 amperes; this value at 125% equals 358.0 amperes, therefore the spare capacity of the existing service equals 1,242.0 amperes.

3. The new load representing the addition of the proposed HVAC equipment equals 258.0 kW, or approximately 310.0 amperes. This value is substantially less than the 1,242.0 amperes previously determined therefore it will acceptable to add the new equipment load to the existing service.

## IX. Electrical Distribution

1. To support the proposed HVAC equipment load (2) new 480/277 volt 3 phase, 4 wire panels rated for 225 amperes shall be provided within Mechanical Room 201 or Electric Closet 204.

The panels shall be designated PHM4 and PHM5. The feeders for the new panels will require (2) new 225 ampere KH frame circuit breakers to be installed within the available space of the existing service switchboard. Two feeders consisting of 2-1/2" conduit with 4#4/0 &#4 ground will be run from the switchboard location in the basement up to either of the two second floor designated areas noted above.

2. Multiple power branch circuits at 480 volt – 3 phase shall be extended from the two new panels to feed new rooftop condensing units as follows:

    a. Panel PHM4 shall feed the Class wing first floor area A unit that is 20 ton with a 60 ampere circuit breaker, 1-1/4" conduit, 3#6 & #10 ground. The feed shall be extended to (2) 60 ampere fusible disconnect switches located at the paired unit. The switches shall be provided with 25 ampere fuses.

    b. Panel PHM4 shall feed the Class wing first floor area B unit that is 20 ton with a 60 ampere circuit breaker, 1-1/4" conduit, 3#6 & #10 ground. The feed shall be extended to (2) 60 ampere fusible disconnect switches located at the paired unit. The switches shall be provided with 25 ampere fuses.

    c. Panel PHM4 shall feed the Class wing second floor area A unit that is 20 ton with a 60 ampere circuit breaker, 1-1/4" conduit, 3#6 & #10 ground. The feed shall be extended to (2) 60 ampere fusible disconnect switches located at the paired unit. The switches shall be provided with 25 ampere fuses.

    d. Panel PHM4 shall feed the Class wing second floor area B unit that is 20 ton with a 60 ampere circuit breaker, 1-1/4" conduit, 3#6 & #10 ground. The feed shall be extended to (2) 60 ampere fusible disconnect switches located at the paired unit. The switches shall be provided with 25 ampere fuses.

    e. Panel PHM5 shall feed the Addition Area unit that is 24 ton with an 80 ampere circuit breaker, 1-1/4" conduit, 3#4 & #10 ground. The feed shall be extended to (2) 100 ampere fusible disconnect switches located at the paired unit. The switches shall be provided with 30 ampere fuses.

    f. Panel PHM5 shall feed the Addition Area unit that is 20 ton with a 60 ampere circuit breaker, 1-1/4" conduit, 3#6 & #10 ground. The feed shall be extended to (2) 60 ampere fusible disconnect switches located at the paired unit. The switches shall be provided with 25 ampere fuses.

    g. Panel PHM5 shall feed the Existing Addition Area unit that is 18 ton with a 60 ampere circuit breaker, 1-1/4" conduit, 3#6 & #10 ground. The feed shall be extended to (2) 60 ampere fusible disconnect switches located at the paired unit. The switches shall be provided with 25 ampere fuses for the A module and 20 ampere fuses for the B module.

3. Multiple power branch circuits at 208 volt single phase shall be provided to serve the air handling equipment located in the conditioned spaces. Seven branch circuits shall be required with one dedicated per each group as noted in #2 a. through g. above. Each circuit shall be provisioned with a 15 ampere, 2 pole circuit breaker, ¾" conduit with 2#12 and #12 ground.

4. Multiple power branch circuits at 208 volt single phase shall be provided to serve the branch controller equipment located in the conditioned spaces. Seven branch circuits shall be required with one dedicated per each group as noted in #2 a. through g. above. Each circuit shall be provisioned with a 15 ampere, 2 pole circuit breaker, ¾" conduit with 2#12 and #12 ground.

5. Branch circuits shall be installed in EMT conduit. EMT conduit shall be used to the first device in a branch circuit and shall be used in all masonry or CMU partitions. Type MC cable shall be allowed but limited to concealed spaces above finished ceilings or in drywall type partitions after EMT connection has been provided to the first piece of equipment or device. The following provisions shall be included:

    a) Circuits for all HVAC equipment as required. 208 volt wiring to control panels, control transformers, etc shall be provided by the electrician while low voltage control wire shall be provided under Division 23.

    b) Maintenance GFCI and weatherproof outlets located on the roof within 25ft of HVAC rooftop equipment.

## X. Materials and Methods

1. Include the following basic materials and methods of construction:

    a) Wiring will be THHN/THWN copper, installed in EMT conduit to first device or exposed and MC cable for and remainder of circuit, and concealed work.

    b) Disconnect switches will be fusible heavy-duty type. NEMA 1 or 3R as required for the installation location.

    c) Circuit breakers will be fixed element, thermal magnetic type.

    d) Panelboards will contain copper bussing, with hinged door-in-door trim.

    e) Branch circuit breakers shall be bolt-on type.

    f) All conduits, circuits and devices will be labeled.

    g) Conduits above roof or located in exterior conditions shall be EMT with compression fittings. Flexible conduit connections to equipment shall be weatherproof flexible metal conduit.

## XI. Cost Estimate

a) VRF equipment only including outdoor condensing units, indoor units, branch selector boxes, refrigerant piping and BACnet controllers shall be approximately $380,128. With labor and installation the mechanical total would be $504,463.

b) Electrical equipment as outlined above for (2) 225 ampere panelboards, (2) switchboard circuit breakers, (2) 225 ampere feeders to the roof area, branch circuits, fusible disconnects and maintenance receptacles at each rooftop condensing unit, branch wiring inside the building to each air handler and branch controller shall be approximately $89,750.

c) Grand total (mechanical plus electrical, etc.) of $873,598. (see next page for breakdown)

McCarthy Elementary School AC Addition Cost Estimate

| | | Quantity or LF | Cost per | Total |
|---|---|---|---|---|
| VRV Equipment | | | | $ 380,128 |
| VRV install labor only(pg 400) | | 130 | 560 | $ 72,800 |
| Condensate Piping (10' each 1"Dia pg 131) | | 1300 | 17.05 | $ 22,165 |
| Condensing Unit Support(p 421) | | 6 | 1000 | $ 6,000 |
| Testing and balancing(p 267) | | | | $ 23,370 |
| Electrical | | Quantity or LF | Unit Cost | |
| Electric Panels | | 2 | 7500 | $ 15,000 |
| Switchboard Circuit Breakers | | 2 | 6000 | $ 12,000 |
| Feeders - 225 ampere lin ft | | 300 | 40 | $ 12,000 |
| Branch Circuits - Rooftop CU's lin ft | | 1050 | 15 | $ 15,750 |
| Branch Circuits - AH's, Recepts lin ft | | 3500 | 5 | $ 17,500 |
| Disconnect Switches | | 14 | 750 | $ 10,500 |
| Receptacles WP, GFI | | 14 | 500 | $ 7,000 |
| Mechanical subtotal | | | | $ 504,463 |
| Electrical subtotal | | | | $ 89,750 |
| Mechanical + Electrical subtotal | | | | $ 594,213 |
| Shop Drawings | | | | $ 4,000 |
| Permitting | | | $15/$1000 | $ 12,024 |
| Commissioning | | | @1% total | $ 14,575 |
| Genearl Conditions | | | @4% of estimate | $ 29,149 |
| Existing Conditions | | | @0.75% of estimate | $ 5,465 |
| Misc Subtotal | | | | $ 65,213 |
| Mech+Elec + Misc | | | | $ 662,478 |
| Estimate +10% contingency | | | | $ 728,726 |
| Total +10% Construction contingency | | | | $ 801,598 |
| Design (soft costs) | | | | $ 72,000 |
| Grand Total | | | | $ 873,598 |

Framingham - Schools, Town of
73 Mount Wayte Ave., Suite #5
Framingham, MA 01702

Quotation# 17-12766-M

Date: September 28, 2017

Attn: Ernest Moreau, Dir. of Building & Grounds

RE: **301 Brook Street**
**Elevator #100-P-17**

Dear Ernest,

Atlantic Elevator Service is pleased to provide you with our proposal to upgrade the elevator controller located at the above referenced location. Our estimate is based on non-proprietary equipment, and ASME 17.4 2004, and Commonwealth of Massachusetts 524CMR 2006 regulations with the following qualifications and clarifications. Please review the following and do not hesitate to contact me with any questions.

Upgrade with the following criteria:

| | |
|---|---|
| **Quantity & Type:** | One hydraulic passenger elevator |
| **Capacity:** | 2000 pounds |
| **Speed:** | 60 feet per minute |
| **Travel:** | Approx. 15' |
| **Landings:** | Two |
| **Openings:** | 2 in line |
| **Proposed Controls:** | MCE (Motion Control Engineering) Microprocessor **(non-proprietary)** |
| **Operation:** | Selective Collective |
| **Power Supply:** | tbd |

**Microprocessor Control**
The operation will be accomplished utilizing microprocessor computer logic control. The elevator control program will be contained in non-volatile, programmable, read only memory. Control will be constructed such that future alteration in elevator operation may readily be made by altering the read only memory. Safety circuits will be monitored and controlled by the programmable logic control with redundant protection. The microprocessor logic will be enclosed in a cabinet.

**Landing System (LSQ)**
The new landing system will utilize a flexible flat metal tape that runs the length of the hoistway. An electronic magnetic reader box on the car top that will see magnets secured on the tape surface that represent the precise level of each floor level. This new equipment is a simper design and provides more accurate leveling.

**Hoistway Wiring**
We will remove all existing wiring from the hoistway and new wiring will be installed. Multi-conductor type wiring shall be used in the elevator hoistway. All conductors will be copper and shall be #14 for lighting circuits and #18 for operating, control and signal circuits. All new duct and trough will be installed in keeping with all applicable codes.

**Traveling Cables**
We will remove the existing traveling cables and install new cables with 10% spares specifically designed for elevator installations. The cables will be supported Kellum grips. Traveling cables will include shielded telephone and/or intercom wiring terminating in a terminal box located on the car.

**Operation of Elevator Under Fire or Other Emergency Condition (Logic Only)**

This elevator is currently not tied into a fire alarm system and does not possess Fire Fighter Service operation. The new controller is equipped with the FFS capabilities for future upgrades.

**Phase I Emergency Recall Operation:**

A three position key operated switch will be provided only at the designated level for each single elevator or for each group of elevators labeled "Fire Recall" and its positions marked "Reset/Off/On" (in that order), with the "Off" position as the center position. The "Fire Recall" letters shall be a minimum of 5 mm (0.25") high in red or a color contrasting with a red background located in the lobby within sight for each single elevator or for each group of elevators and shall be readily accessible. The key shall be removable only in "On" and "Off" positions.

If required, an additional key-operated "Fire Recall" switch, with two positions, marked "Off" and "On" (in the order) shall be permitted only at the building fire control station.

All "Fire Recall" switches shall be provided with an illuminated visual signal to indicate when Phase I Emergency Recall Operation is in effect. Required signage at the designated level shall be provided.

When the switch is in the "Off" position, normal elevator service shall be provided.

When the switch is in the "On" position, all elevators controlled by this switch and which are on automatic service shall return on-stop to designated level and doors will open and remain open.

A car traveling away from the designated level will reverse at or before the next available floor without opening its doors.

A car stopped at a landing shall have the in-car emergency stop switch rendered inoperative as soon as the door is closed, and the car starts toward the designated level. A moving car, traveling to or away from the designated level, will have the in-car emergency stop switch rendered in-operative immediately.

A car standing at a floor other than the designated level with door open and in-car emergency stop switch in the run position, will closed the doors without delay and proceed to the designated level.

Door re-opening devices for power operated doors which are sensitive to smoke or flame shall be rendered in-operative. Mechanically actuated door re-opening devices not sensitive to smoke of flame shall remain operative. Car door open buttons shall remain operative.

All car and corridor call buttons and all corridor door opening and closing buttons in the car operating panels shall be rendered in-operative and all call registered lights and directional lanterns shall be extinguished and remain in-operative. Position indicators, when provided, shall remain in service.

All cars shall be provided with a visual and audible signal system which shall be activated to alert the passengers that the car is returning non-stop to the designated level.

When a machine room fire alarm is activated, it shall cause visual signal in car with equipment in the machine room to illuminate intermittently.

Smoke Detectors:
The elevator contractor is to provide the necessary controls and connections for smoke detector operation as required by code for Phase I Fireman's Emergency Return.

**Note: Smoke detectors and wiring is work by others.**

**Phase II Emergency In-Car Operation:**
A firefighter's operation panel openable by the same key that operates the "fire Operation" switch shall be provided in the car operating panel in accordance with ASNME A17.1-2004. The front of the cover shall contain the words "Firefighter's Operation" in red letters 10mm (4") high.

"Fire Operation" three position (Off/Hold/On in that order) key switch, Call Cancel button, stop switch, door open and door close buttons, the additional visual signal and operating instructions shall be grouped together at the top of main car operating panel behind locked cover.

Cover shall be permitted to open automatically when car is on Phase I and at recall level.

The label "Fire Operation" lettering shall be a minimum of 5 mm (0.25") high in red or a color contrasting with a red background. It shall become effective only when Phase I Emergency Recall Operation is in effect and the car has been returned to recall level. The switch shall be rotated clockwise to go from "Off" to "Hold" to "On". The key shall be removable in each position.

When "Fire Operation" switch is in the "On" position, the operation of elevator on Phase II Emergency In-Car Operation shall be by emergency service personnel only and shall be as follows:

An elevator shall be operable only by a person in the car.

All corridor call buttons and directional lanterns shall remain inoperative.

The opening of power- operated doors shall be controlled only by continuous pressure "Door Open" button. If the button is released prior to the doors reaching the fully open position, the doors shall automatically reclose. Open doors shall be closed by continuous pressure on "Door Close" button.

When the switch is in the "Hold" position, the car shall remain at the floor with its doors open. "Door Close" button will be in-operative.

Door re-opening devices rendered in-operative shall remain inoperative.

Means shall be provided to cancel registered car calls.

A firefighter's stop switch shall be provided. When the switch is in the "Stop" position all registered calls shall be cancelled and power will be removed from the elevator driving machine, motor and breaker. When switch is moved to the "Run" position from the "Stop" position, the car shall be in-operative except for leveling until a call is registered.

Elevator shall only be removed from phase II operation by moving the emergency key operated switch in the car to the "Off" position with the car at the designated or alternate level (to be coordinated with local authorities).

**Limit Switches**
Limit switches will be provided in the hoistway designed to automatically stop the car at terminal landings.

**Automatic Two-Way Leveling**
An automatic two-way leveling device will be provided so that the car will approach landing stops at reduced speed from either direction of travel. The leveling device will, within its zone, be entirely independent of the operating device and designed to automatically stop and maintain the car approximately level with the landing, regardless of change in load.

**Low Oil Control**
A low oil control feature will be provided designed to automatically cause an up traveling car to descend to the lowest terminal landing if the system does not have a sufficient reservoir of oil. When the elevator has power operated doors, the car and hoistway doors will automatically open at the lowest terminal landing to permit passenger egress. The doors will then automatically close and all control buttons, except the door open button in the car operating panel will be made ineffective.

**Power Unit**
A Non-Proprietary hydraulic power unit especially designed and manufactured for this elevator's particular characteristics will be furnished and installed. Control valves including safety check valve, up direction valve with high pressure relief including up level and soft stop features, lowering valve, including down leveling and manual leveling feature will be mounted in a compact unit assembly. Control valves will be solenoid operated and designed to open and close gradually to give smooth control. All valves will be readily accessible for adjustment.

**Master Door Operator (Both car doors)**
A closed loop door operator and door clutch will be provided to open and close the car and hoistway doors simultaneously. The door movement will be cushioned or checked at both limits of travel. An electro-mechanical interlock will be provided on each hoistway door to prevent the operation of the elevator unless all doors are closed and locked. A door restrictor will not allow the door to open when not at a hall landing.

**Car Door and All Related Equipment**
Car Door hangers, tracks, rollers, closers, locks, door sill guides as needed, and gate switch will be replaced with new to provide reliable and consistent door operation.

**Hoistway Doors Related Equipment**
Hoistway door interlocks will be replaced at all landing to provide reliable and consistent door operation.

**Car Operating Panel**
A flush mounted operating panel will be furnished in the car containing illuminated call buttons for each landing, emergency stop switch, alarm button, emergency light, fire service switch, jewel and call cancel button behind locked cabinet as per elevator code, independent service, engraved "No Smoking" and "in case of fire…" signs, fan switch, and push to talk, auto dial telephone with acknowledgement light.

**Digital Car Position Indicator**
An electric car position indicator will be provided in the car above the car station. The position of the car in the hoistway will be indicated by illumination of the numerals corresponding to the floor at which the elevator is stopped or passing.

**Digital Hall Position Indicator**
At the ***street lobby only*** a surface mounted digital position indicator will be installed.

**Hall Buttons**
Single, surface mounted, illuminated button will be provided at each landing. Street lobby fixture to include fire fighter's service key, fire fighter's service jewel and engraved fire fighter's service instruction as per elevator code. Top and bottom terminal floor will contain access operation. All fixtures to have engraved instructions and designation as per elevator codes.

**Car Direction Sign**
One car direction sign mounted in elevator door strike jamb with audible and visual next direction of travel.

**Fixture Finish**
Fixture finish will be of #4 stainless steel.

**Permits**
We will secure and pay for elevator inspection and permit. Owner is to secure and pay for any electric permits required.

**Guarantee**
Atlantic Elevator Service hereby guarantees material and workmanship of the elevator system pursuant to this contract and will make good (by repairing/replacing at Atlantic Elevator Service's option any defects which may develop within twelve months after elevator inspection and approval of the elevator system by the state elevator inspector and party signatory to this agreement provided all payments due and owing Atlantic Elevator Service pursuant to this contract have been pain in full at such time. Atlantic Elevator Service will not bear responsibility under this guarantee for any defects caused by ordinary wear and tear, improper maintenance, misuse, accidents, negligence or vandalism or by modifications to the elevator system not performed by Atlantic Elevator Service. Atlantic Elevator Service makes no other guarantee, warranty or representation of any nature whatsoever whether expressed or implied.

The cost of the aforementioned work figured to be performed during the regular business hours of our trade is ***Seventy Six Thousand Three Hundred Fifty ($76,350.00) Dollars***. We include all applicable Massachusetts sales tax and elevator installation permit fees.

**Option #1: Battery lowering**
Battery lowering unit provides automatic backup power for a hydraulic elevator when the building loses power. The unit returns the elevator to the lowest landing and the doors open allowing the passenger exit. The elevator will remain at the landing with the doors closed until power is restored.

Add ***One Thousand Four Hundred ($1,400.00) Dollars*** to the base bid.

**Accepted**_____**Rejected**_____

**Qualifications and Specifications:**

- All work to be performed during regular business hours of our trade.
- Price is based on installation to be complete prior to 12/31/2018, inclusive of elevator inspection.
- If emergency phone is required by code, customer to provide phone line. Line must be dedicated with 24/7 answering service with caller ID.
- Proposal includes one State test during regular working hours. If an overtime test is available and requested the overtime permit cost will be billable and all additional labor will be based on our standard hourly overtime rate.
- All preparatory work is by others and should be complete prior to mobilization. (See list of Work by Others).
- Price is contingent on clear and unobstructed access to the installation location.
- Remobilization may result in schedule delay and additional charges.
- See Attached terms and conditions.
- See attached Preparatory Work, (if not already present), to be performed by others.

**Installation schedule (after written receipt of order):**

| | |
|---|---|
| Engineering & manufacturing: | 4 weeks |
| Installation: | 20 working days |

If you find our proposal acceptable please sign and return to my attention.

Terms: 30% upon signed contract
30% upon delivery of equipment
40% progress billing

This quotation is subject to review in 60 days.

Authorized Signature: _____

Title: _____

Firm: _____

Date: _____

Respectfully submitted,

Deborah Bouvette
Account Manager

**Terms and Conditions:**

Atlantic Elevator Service reserves its right to suspend performance of our work upon seven days written notice to you should we, through no fault of our own, not receive timely payment (within 30 days of our invoice) for our work. Should we so suspend, we shall be entitled to our reasonable expenses in demobilizing and remobilizing.

Atlantic Elevator Service shall not be required to turn any of the work over for the beneficial use of others, including but not limited to owner or Purchaser, until the then present value of the agreement, including all extras and change orders, is paid to 90%.

The final balance due on the Proposal, including all retainage, shall be due within 30 days after the elevator has been certified for use by the Massachusetts Department of Public Safety.

Atlantic Elevator Service shall not be liable for any loss, damage or delay caused by acts of government, labor troubles, strikes, lockouts, fire, explosion, theft, floods, riot, civil commotion, war, malicious mischief, acts of God, or any cause beyond its control, and in no event shall Atlantic Elevator Service be liable for special indirect, liquidated or consequential damages. Atlantic Elevator Service shall automatically receive an extension of time commensurate with any delay regarding the aforementioned.

To the fullest extent permitted by law, Purchaser shall defend, indemnify and hold harmless Atlantic Elevator Service and its respective agents, officers, employees and partners (hereinafter collectively "Indemnities") from and against all claims, damages, losses, expenses (including, but not limited to reasonable attorney's fees), liabilities, interest, judgments which (i) are attributable to sickness, disease, or death or to injury or to destruction or damage to tangible property, but only to the extent caused by the negligent acts or omissions of the Purchaser, its sub-contractor(s) or anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, regardless of whether or not it is caused in part by a party indemnified under this Proposal. The aforesaid indemnification obligation shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the Purchaser's Workman's Compensation, Disability Benefit Acts or other employee benefit acts.

Your acceptance of this Proposal, shall constitute the entire Agreement between Atlantic Elevator Service and you. The Proposal and the exhibits attached hereto contain the Entire Agreement of the parties with respect to the subject matter of this Agreement, and supersede all prior negotiations, agreements and understandings with respect thereto. The Agreement may only be amended by a written document duly executed by all parties. Should your acceptance be in the form of a purchase order or other document, you agree that this the provisions of this document will govern even in the event of a conflict.

In the event of litigation relating to the subject matter of this Agreement, the prevailing party shall be entitled to recover from the non-prevailing party, all reasonable attorney fees and costs resulting there from.

**Preparatory Work for Elevator Project**

The following preparatory work for our project is the responsibility of the Purchaser and is to be completed without delay, cost, or back charge to Atlantic Elevator Service.

**Elevator Equipment Access:**
The Purchaser agrees to provide clear access to the elevator hoistway and machine room to install elevator equipment.

**Power Supply:**
The Purchaser agrees to retain the main electrical power wires good, usable condition in the machine room.

**Mainline Disconnect Switch:**
The Purchaser agrees to provide a lockable intervening fused disconnect switch located in the elevator machine room as required by code.

**Car Lighting Circuit:**
The Purchaser agrees to provide lockable 120 volt, 60 hertz, 20 amp fused single-phase power in the machine room for car lights.

**Dedicated Earth Ground Wiring:**
The Purchaser agrees to provide dedicated earth ground bond from elevator machine room lockable disconnect switch.

**Elevator Machine Room GFCI Receptacles & Lighting:**
The Purchaser agrees to provide adequate permanent light fixtures with switch and GFCI receptacle in elevator machine room.

**Elevator Pit GFCI Receptacles & Lighting:**
The Purchaser agrees to provide adequate permanent light fixtures with switch and GFCI receptacle in elevator pit.

**Fire Alarm Modules & Signaling:**
If elevator fire service features are required by local elevator code, the Purchaser agrees to provide smoke detectors in each elevator lobby and machine room and install (3) fire alarm modules inside machine room to indicate primary floor alarm, alternate floor alarm, and machine room alarms.

**Fire Alarm Testing:**
If elevator fire service features are required by local elevator code, the Purchaser agrees to provide building's fire alarm service vendor at safety test to silence smoke alarm system and activate all elevator related smoke detectors.

**Machine Room Temperature:**
The Purchaser agrees to maintain an ambient temperature in the elevator machine room of between fifty (50) and ninety (90) Degrees Fahrenheit at all times as required by local elevator code.

**Hoistway & Machine Room Ventilation:**
The Purchaser agrees to provide code required ventilation in machine room and hoistway.

**Dedicated Emergency Phone Line:**
The Purchaser agrees to provide telephone line dedicated for elevator use only and located within the elevator machine room.

**Failure to Complete Preparatory Work:**
The Purchaser agrees to indemnify and save harmless Atlantic Elevator Service against all liability growing out of the failure to complete any of the foregoing Preparatory Work.

***Complete all work in such time as to not delay our work.***

95 Shawmut Rd
CANTON, MA 02021-1428
(617) 965 5900
FAX: (617) 244 8197
www.simplexgrinnell.com

# SimplexGrinnell Quotation

TO:
Framingham Public Schools
73 Mount Wayter AVE Suite
Attn: Bldg & Grounds Dept
FRAMINGHAM, MA 01702

Project: Framingham Schools
Customer Reference:
SimplexGrinnell Reference: 108481962
Date: 10/13/2017


SimplexGrinnell is pleased to offer for your consideration this quotation for the above project.

| QUANTITY | MODEL NUMBER | DESCRIPTION |
|---|---|---|
| | **Framingham Schools** | |
| | Framingham Schools | |
| 175 | 14155 | 12.5IN BLACK TRADITIONAL CLOCK |
| 2 | Q12660-2 | 100' FT EXT CABLE FOR XR TX |
| 2 | XR01AP | TRANS ACC PK - TRANS RACK& UPS |
| 3 | XR01IM | 1W Transm w/Ethernet prt w/GPS |
| 8 | 14163-S | 16IN BLK TRAD CLOCK |
| 260 | 14890 | DUAL D CELL ALKALINE BATTERY |

**Total net selling price, FOB shipping point, $25,330.38**

Comments

Quote is based on equipment and quantities indicated.

Equipment only.

MHEC Contract MC13-05 Pricing

**THIS QUOTATION AND ANY RESULTING CONTRACT SHALL BE SUBJECT TO THE GENERAL TERMS AND CONDITIONS ATTACHED HERETO.**
Fire, Security, Communications, Sales & Service
Offices & Representatives in Principal Cities throughout North America

## TERMS AND CONDITIONS

**1. Payment.** Payments shall be invoiced and due in accordance with the terms and conditions set forth above. Work performed on a time and material basis shall be at the then-prevailing Company rate for material, labor, and related items, in effect at the time supplied under this Agreement. Company shall invoice Customer for progress payments to one hundred (100%) percent based upon equipment delivered or stored, and services performed. Customers without established satisfactory credit shall make payments of cash in advance, upon delivery or as otherwise specified by Company. Where Customer establishes and maintains satisfactory credit, payments shall be due and payable thirty (30) days from date of invoice. Company reserves the right to revoke or modify Customer's credit at its sole discretion. The Customer's failure to make payment when due is a material breach of this Agreement.

If Customer fails to make any payment when due, in addition to any other rights and remedies available, Company shall have the right, at Company's sole discretion, to stop performing any Services and/or withhold further deliveries of materials, until the account is current. In the event payment is not received when due, Company may, at its discretion, assess late fees at the rate of 1.5% per month or the maximum rate allowed by law. Customer agrees to pay all costs of collection, including without limitation costs, fees, and attorneys' fees. Customer's failure to make payment when due is a material breach of this Agreement until the account is current.

**2. Pricing.** The pricing set forth in this Agreement is based on the number of devices to be installed and services to be performed as set forth in the Scope of Work ("Equipment" and "Services"). If the actual number of devices installed or services to be performed is greater than that set forth in the Scope of Work, the price will be increased accordingly. If this Agreement extends beyond one year, SimplexGrinnell may increase prices upon notice to the Customer. Customer agrees to pay all taxes, permits, and other charges, including but not limited to state and local sales and excise taxes, however designated, levied or based on the service charges pursuant to this Agreement.

**3. Alarm Monitoring Services.** Any reference to alarm monitoring services in this Agreement is included for pricing purposes only. Alarm monitoring services are performed pursuant to the terms and conditions of Company's standard alarm monitoring services agreement.

**4. Code Compliance.** Company does not undertake an obligation to inspect for compliance with laws or regulations unless specifically stated in the Scope of Work. Customer acknowledges that the Authority Having Jurisdiction (e.g. Fire Marshal) may establish additional requirements for compliance with local codes. Any additional services or equipment required will be provided at an additional cost to Customer.

**5. Limitation of Liability; Limitations of Remedy**. **It is understood and agreed by the Customer that Company is not an insurer and that insurance coverage, if any, shall be obtained by the Customer and that amounts payable to company hereunder are based upon the value of the services and the scope of liability set forth in this Agreement and are unrelated to the value of the Customer's property and the property of others located on the premises. Customer agrees to look exclusively to the Customer's insurer to recover for injuries or damage in the event of any loss or injury and that Customer releases and waives all right of recovery against Company arising by way of subrogation. Company makes no guaranty or Warranty, including any implied warranty of merchantability or fitness for a particular purpose that equipment or services supplied by Company will detect or avert occurrences or the consequences therefrom that the equipment or service was designed to detect or avert.**

**It is impractical and extremely difficult to fix the actual damages, if any, which may proximately result from failure on the part of Company to perform any of its obligations under this Agreement. Accordingly, Customer agrees that, Company shall be exempt from liability for any loss, damage or injury arising directly or indirectly from occurrences, or the consequences therefrom, which the equipment or service was designed to detect or avert. Should Company be found liable for any loss, damage or injury arising from a failure of the equipment or service in any respect, Company's liability shall be limited to an amount equal to the Agreement price (as increased by the price for any additional work) or where the time and material payment term is selected, Customer's time and material payments to Company. Where this Agreement covers multiple sites, liability shall be limited to the amount of the payments allocable to the site where the incident occurred. Such sum shall be complete and exclusive. If Customer desires Company to assume greater liability, the parties shall amend this Agreement by attaching a rider setting forth the amount of additional liability and the additional amount payable by the Customer for the assumption by Company of such greater liability, provided however that such rider shall in no way be interpreted to hold Company as an insurer. IN NO EVENT SHALL COMPANY BE LIABLE FOR ANY DAMAGE, LOSS, INJURY, OR ANY OTHER CLAIM ARISING FROM ANY SERVICING, ALTERATIONS, MODIFICATIONS, CHANGES, OR MOVEMENTS OF THE COVERED SYSTEM(S) OR ANY OF ITS COMPONENT PARTS BY THE CUSTOMER OR ANY THIRD PARTY. COMPANY SHALL NOT BE LIABLE FOR INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND, INCLUDING BUT NOT LIMITED TO DAMAGES ARISING FROM THE USE, LOSS OF THE USE, PERFORMANCE, OR FAILURE OF THE COVERED SYSTEM(S) TO PERFORM. The limitations of liability set forth in this Agreement shall inure to the benefit of all parents, subsidiaries and affiliates of company, whether direct or indirect, company's employees, agents, officers and directors.**

**6. Reciprocal Waiver of Claims (SAFETY Act).** Certain of SimplexGrinnell's systems and services have received Certification and/or Designation as Qualified Anti-Terrorism Technologies ("QATT") under the Support Anti-terrorism by Fostering Effective Technologies Act of 2002, 6 U.S.C. §§ 441-444 (the "SAFETY Act"). As required under 6 C.F.R. 25.5 (e), to the maximum extent permitted by law, SimplexGrinnell and Customer hereby agree to waive their right to make any claims against the other for any losses, including business interruption losses, sustained by either party or their respective employees, resulting from an activity resulting from an "Act of Terrorism" as defined in 6 C.F.R. 25.2, when QATT have been deployed in defense against, response to, or recovery from such Act of Terrorism.

**7. General Provisions.** Customer has selected the service level desired after considering and balancing various levels of protection afforded, and their related costs. Customer acknowledges and agrees that by this Agreement, Company, unless specifically stated, does not undertake any obligation to maintain or render Customer's system or equipment as Year 2000 compliant, which shall mean, capable of correctly handling the processing of calendar dates before or after December 31, 1999. All work to be performed by Company will be performed during normal working hours of normal working days (8:00 a.m. – 5:00 p.m., Monday through Friday, excluding Company holidays), as defined by Company, unless additional times are specifically described in this Agreement.

Company will perform the services described in the Scope of Work section ("Services") for one or more system(s) or equipment as described in the Scope of Work section or the listed attachments ("Covered System(s)").

The Customer shall promptly notify Company of any malfunction in the Covered System(s) which comes to Customer's attention. This Agreement assumes the Covered System(s) are in operational and maintainable condition as of the Agreement date. If, upon initial inspection, Company determines that repairs are recommended, repair charges will be submitted for approval prior to any work. Should such repair work be declined Company shall be relieved from any and all liability arising therefrom. UNLESS OTHERWISE SPECIFIED IN THIS AGREEMENT, ANY INSPECTION (AND, IF SPECIFIED, TESTING) PROVIDED UNDER THIS AGREEMENT DOES NOT INCLUDE ANY MAINTENANCE, REPAIRS, ALTERATIONS, REPLACEMENT OF PARTS, OR ANY FIELD ADJUSTMENTS WHATSOEVER, NOR DOES IT INCLUDE THE CORRECTION OF ANY DEFICIENCIES IDENTIFIED BY COMPANY TO CUSTOMER. COMPANY SHALL NOT BE RESPONSIBLE FOR EQUIPMENT FAILURE OCCURRING WHILE COMPANY IS IN THE PROCESS OF FOLLOWING ITS INSPECTION TECHNIQUES, WHERE THE FAILURE ALSO RESULTS FROM THE AGE OR OBSOLESCENCE OF THE ITEM OR DUE TO NORMAL WEAR AND TEAR. THIS AGREEMENT DOES NOT COVER SYSTEMS, EQUIPMENT, COMPONENTS OR PARTS THAT ARE BELOW GRADE, BEHIND WALLS OR OTHER OBSTRUCTIONS OR EXTERIOR TO THE BUILDING, ELECTRICAL WIRING, AND PIPING.

**8. Customer Responsibilities.** Customer shall furnish all necessary facilities for performance of its work by Company, adequate space for storage and handling of materials, light, water, heat, heat tracing, electrical service, local telephone, watchman, and crane and elevator service and necessary permits. Where wet pipe system is installed, Customer shall supply and maintain sufficient heat to prevent freezing of the system. Customer shall promptly notify Company of any malfunction in the Covered System(s) which comes to Customer's attention. This Agreement assumes any existing system(s) are in operational and maintainable condition as of the Agreement date. If, upon initial inspection, Company determines that repairs are recommended, repair charges will be submitted for approval prior to any work. Should such repair work be declined Company shall be relieved from any and all liability arising therefrom.

Customer shall further:

- supply required schematics and drawings unless they are to be supplied by Company in accordance with this Agreement;
- Provide a safe work environment, in the event of an emergency or Covered System(s) failure, take reasonable safety precautions to protect against personal injury, death, and property damage, continue such measures until the Covered System(s) are operational, and notify Company as soon as possible under the circumstances.
- Provide Company access to any system(s) to be serviced,
- Comply with all laws, codes, and regulations pertaining to the equipment and/or services provided under this agreement.

**9. Excavation.** In the event the Work includes excavation, Customer shall pay, as an extra to the contract price, the cost of any additional work performed by Company dues to water, quicksand, rock or other unforeseen condition or obstruction encountered or shoring required.

**10. Structure and Site Conditions.** While employees of Company will exercise reasonable care in this respect, Company shall be under not responsibility for loss or damage due to the character, condition or use of foundations, walls, or other structures not erected by It or resulting from the excavation in proximity thereto, or for damage resulting from concealed piping, wiring, fixtures, or other equipment or condition of water pressure. All shoring or protection of

**SALE AND INSTALLATION AGREEMENT**
(continued)

foundation, walls or other structures subject to being disturbed by any excavation required hereunder shall be the responsibility of Customer. Customer shall have all things in readiness for installation including, without limitation, structure to support the sprinkler system and related equipment (including tanks), other materials, floor or suitable working base, connections and facilities for erection at the time the materials are delivered. In the event Customer fails to have all things in readiness at the time scheduled for receipt of materials, Customer shall reimburse Company for all expenses caused by such failure. Failure to make areas available to Company during performance in accordance with schedules that are the basis for Company's proposal shall be considered a failure to have things in readiness in accordance with the terms of this Agreement.

**11. Confined Space.** If access to confined space by Company is required for the performance of Services, Services shall be scheduled and performed in accordance with Company's then-current hourly rate.

**12. Hazardous Materials.** Customer represents that, except to the extent that Company has been given written notice of the following hazards prior to the execution of this Agreement, to the best of Customer's knowledge there is no:

- "permit confined space," as defined by OSHA,
- risk of infectious disease,
- need for air monitoring, respiratory protection, or other medical risk,
- asbestos, asbestos-containing material, formaldehyde or other potentially toxic or otherwise hazardous material contained in or on the surface of the floors, walls, ceilings, insulation or other structural components of the area of any building where work is required to be performed under this Agreement.

All of the above are hereinafter referred to as "Hazardous Conditions".

Company shall have the right to rely on the representations listed above. If hazardous conditions are encountered by Company during the course of Company's work, the discovery of such materials shall constitute an event beyond Company's control and Company shall have no obligation to further perform in the area where the hazardous conditions exist until the area has been made safe by Customer as certified in writing by an independent testing agency, and Customer shall pay disruption expenses and re-mobilization expenses as determined by Company.

This Agreement does not provide for the cost of capture, containment or disposal of any hazardous waste materials, or hazardous materials, encountered in any of the Covered System(s) and/or during performance of the Services. Said materials shall at all times remain the responsibility and property of Customer. Company shall not be responsible for the testing, removal or disposal of such hazardous materials.

**13. OSHA Compliance.** Customer shall indemnify and hold Company harmless from and against any and all claims, demands and/or damages arising in whole or in part from the enforcement of the Occupational Safety Health Act (and any amendments or changes thereto) unless said claims, demands or damages are a direct result of causes within the exclusive control of Company.

**14. Interferences.** Customer shall be responsible to coordinate the work of other trades (including but not limited to ducting, piping, and electrical) and for and additional costs incurred by Company arising out of interferences to Company's work caused by other trades.

**15. Modifications and Substitutions.** Company reserves the right to modify materials, including substituting materials of later design, providing that such modifications or substitutions will not materially affect the performance of the Covered System(s).

**16. Changes, Alterations, Additions.** Changes, alterations and additions to the Scope of Work, plans, specifications or construction schedule shall be invalid unless approved in writing by Company. Should changes be approved by Company, that increase or decrease the cost of the work to Company, the parties shall agree, in writing, to the change in price prior to performance of any work. However, if no agreement is reached prior to the time for performance of said work, and Company elects to perform said work so as to avoid delays, then Company's estimate as to the value of said work shall be deemed accepted by Customer. In addition, Customer shall pay for all extra work requested by Customer or made necessary because of incompleteness or inaccuracy of plans or other information submitted by Customer with respect to the location, type of occupancy, or other details of the work to be performed. In the event the layout of Customer's facilities has been altered, or is altered by Customer prior to the completion of the Work, Customer shall advise Company, and prices, delivery and completion dates shall be changed by Company as may be required.

**17. Commodities Availability.** Company shall not be responsible for failure to provide services, deliver products, or otherwise perform work required by this Agreement due to lack of available steel products or products made from plastics or other commodities. 1) In the event Company is unable, after reasonable commercial efforts, to acquire and provide steel products, or products made from plastics or other commodities, if required to perform work required by this Agreement, Customer hereby agrees that Company may terminate the Agreement, or the relevant portion of the Agreement, at no additional cost and without penalty. Customer agrees to pay Company in full for all work performed up to the time of any such termination. 2) If Company is able to obtain the steel products or products made from plastics or other commodities, but the price of any of the products has risen by more than 10% from the date of the bid, proposal or date Company executed this Agreement, whichever occurred first, then Company may pass through that increase through a reasonable price increase to reflect increased cost of materials.

**18. Project Claims.** Any claim of failure to perform against Company arising hereunder shall be deemed waived unless received by Company, in writing specifically setting forth the basis for such claim, within ten (10) days after such claims arises.

**19. Backcharges.** No charges shall be levied against the Seller unless seventy-two (72) hours prior written notice is given to Company to correct any alleged deficiencies which are alleged to necessitate such charges and unless such alleged deficiencies are solely and directly caused by Company.

**20. System Equipment.** The purchase of equipment or peripheral devices (including but not limited to smoke detectors, passive infrared detectors, card readers, sprinkler system components, extinguishers and hoses) from Company shall be subject to the terms and conditions of this Agreement. If, in Company's sole judgment, any peripheral device or other system equipment, which is attached to the Covered System(s), whether provided by Company or a third party, interferes with the proper operation of the Covered System(s), Customer shall remove or replace such device or equipment promptly upon notice from Company. Failure of Customer to remove or replace the device shall constitute a material breach of this Agreement. If Customer adds any third party device or equipment to the Covered System(s), Company shall not be responsible for any damage to or failure of the Covered System(s) caused in whole or in part by such device or equipment.

**21. Reports.** Where inspection and/or test services are selected, such inspection and/or test shall be completed on Company's then current Report form, which shall be given to Customer, and, where applicable, Company may submit a copy thereof to the local authority having jurisdiction. The Report and recommendations by Company are only advisory in nature and are intended to assist Customer in reducing the risk of loss to property by indicating obvious defects or impairments noted to the system and equipment inspected and/or tested. They are not intended to imply that no other defects or hazards exist or that all aspects of the Covered System(s), equipment, and components are under control at the time of inspection. Final responsibility for the condition and operation of the Covered System(s) and equipment and components lies with Customer.

**22. Limited Warranty.** Subject to the limitations below, Company warrants any equipment (as distinguished from the Software) installed pursuant to this Agreement to be free from defects in material and workmanship under normal use for a period of one (1) year from the date of first beneficial us or all or any part of the Covered System(s) or 18 months after Equipment shipments, whichever is earlier, provided however, that Company's soles liability, and Customer's sole remedy, under this limited warranty shall be limited to the repair or replacement of the Equipment or any part thereof, which Company determines is defective, at Company's sole option and subject to the availability of service personnel and parts, as determined by Company. Company warrants expendable items, including, but not limited to, video and print heads, television camera tubes, video monitor displays tubes, batteries and certain other products in accordance with the applicable manufacturer's warranty. Company does not warrant devices designed to fail in protecting the System, such as, but not limited to, fuses and circuit breakers.

Company warrants that any Company software described in this Agreement, as well as software contained in or sold as part of any Equipment described in this Agreement, will reasonably conform to its published specifications in effect at the time of delivery and for ninety (90) days after delivery. However, Customer agrees and acknowledges that the software may have inherent defects because of its complexity. Company's sole obligation with respect to software, and Customer's sole remedy, shall be to make available published modifications, designed to correct inherent defects, which become available during the warranty period.

If Repair Services are included in this Agreement, Company warrants that its workmanship and material for repairs made pursuant to this Agreement will be free from defects for a period of ninety (90) days from the date of furnishing.

**EXCEPT AS EXPRESSLY SET FORTH HEREIN, COMPANY DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE SERVICES PERFORMED OR THE PRODUCTS, SYSTEMS OR EQUIPMENT, IF ANY, SUPPORTED HEREUNDER. COMPANY MAKES NO WARRANTY OR REPRESENTATION, AND UNDERTAKES NO OBLIGATION TO ENSURE BY THE SERVICES PERFORMED UNDER THIS AGREEMENT, THAT COMPANY'S PRODUCTS OR THE SYSTEMS OR EQUIPMENT OF THE CUSTOMER WILL CORRECTLY HANDLE THE PROCESSING OF CALENDAR DATES BEFORE OR AFTER DECEMBER 31, 1999.**

Warranty service will be performed during Company's normal working hours. If Customer requests warranty service at other than normal working hours, service will be performed at Company's then current rates for after ours services. All repairs or adjustments that are or may become necessary shall be performed by and authorized representative of Company. Any repairs, adjustments or interconnections performed by Customer or any third party shall void all warranties.

**23. Indemnity.** Customer agrees to indemnify, hold harmless and defend Company against any and all losses, damages, costs, including expert fees and costs, and expenses including reasonable defense costs, arising from any and all third party claims for personal injury, death, property damage or economic loss, including specifically any damages resulting from the exposure of workers to Hazardous Conditions whether or not Customer pre-notifies Company of the existence of said hazardous conditions, arising in any way from any act or omission of Customer or Company relating in any way to this Agreement, including but not limited to the Services under this Agreement, whether such claims are based upon contract, warranty, tort (including but not limited to active or passive negligence), strict liability or otherwise. Company reserves the right to select counsel to represent it in any such action.

**24. Insurance.** Customer shall name Company, its officers, employees, agents, subcontractors, suppliers, and

**SALE AND INSTALLATION AGREEMENT**
(continued)

representatives as additional insureds on Customer's general liability and auto liability policies.

**25. Termination.** Any termination under the terms of this Agreement shall be made in writing. In the event Customer terminates this Agreement prior to completion for any reason not arising solely from Company's performance or failure to perform, Customer understands and agrees that Company will incur costs of administration and preparation that are difficult to estimate or determine. Accordingly, should Customer terminate this Agreement as described above, Customer agrees to pay all charges incurred for products and equipment installed and services performed, and in addition pay an amount equal to twenty (20%) percent of the price of products and equipment not yet delivered and Services not yet performed, return all products and equipment delivered and pay a restocking fee of twenty (20%) percent the price of products or equipment returned.

Company may terminate this Agreement immediately at its sole discretion upon the occurrence of any Event of Default as hereinafter defined. Company may also terminate this Agreement at its sole discretion upon notice to Customer if Company's performance of its obligations under this Agreement becomes impracticable due to obsolescence of equipment at Customer's premises or unavailability of parts.

**26. No Option to Solicit.** Customer shall not, directly or indirectly, on its own behalf or on behalf of any other person, business, corporation or entity, solicit or employ any Company employee, or induce any Company employee to leave his or her employment with Company, for a period of two years after the termination of this Agreement.

**27. Default.** An Event of Default shall be 1) failure of the Customer to pay any amount within ten (10) days after the amount is due and payable, 2) abuse of the System or the Equipment, 3) dissolution, termination, discontinuance, insolvency or business failure of Customer. Upon the occurrence of an Event of Default, Company may pursue one or more of the following remedies, 1) discontinue furnishing Services, 2) by written notice to Customer declare the balance of unpaid amounts due and to become due under the this Agreement to be immediately due and payable, provided that all past due amounts shall bear interest at the rate of 1 ½% per month (18% per year) or the highest amount permitted by law, 3) receive immediate possession of any equipment for which Customer has not paid. 4) proceed at law or equity to enforce performance by Customer or recover damages for breach of this Agreement, and 5) recover all costs and expenses, including without limitation reasonable attorneys' fees, in connection with enforcing or attempting to enforce this Agreement.

**28. Exclusions**. Unless expressly included in the Scope of Work, this Agreement expressly excludes, without limitation, testing inspection and repair of duct detectors, beam detectors, and UV/IR equipment; provision of fire watches; clearing of ice blockage; draining of improperly pitched piping; replacement of batteries; recharging of chemical suppression systems; reloading of, upgrading, and maintaining computer software; system upgrades and the replacement of obsolete systems, equipment, components or parts; making repairs or replacements necessitated by reason of negligence or misuse of components or equipment or changes to Customer's premises, vandalism, corrosion (including but not limited to micro-bacterially induced corrosion ("MIC")), power failure, current fluctuation, failure due to non-Company installation, lightning, electrical storm, or other severe weather, water, accident, fire, acts of God or any other cause external to the Covered System(s). Repair Services provided pursuant to this Agreement do not cover and specifically excludes system upgrades and the replacement of obsolete systems, equipment, components or parts. All such services may be provided by Company at Company's sole discretion at an additional charge. If Emergency Services are expressly included in the scope of work section, the Agreement price does not include travel expenses.

**29. Force Majeure; Delays.** Company shall not be liable for any damage or penalty for delays or failure to perform work due to acts of God, acts or omissions of Customer, acts of civil or military authorities, Government regulations or priorities, fires, epidemics, quarantine, restrictions, war, riots, civil disobedience or unrest, strikes, delays in transportation, vehicle shortages, differences with workmen, inability to obtain necessary labor, material or manufacturing facilities, defaults of Company's subcontractors, failure or delay in furnishing compete information by Customer with respect to location or other details of work to be performed, impossibility or impracticability of performance or any other cause or causes beyond Company's control, whether or not similar to the foregoing. In the event of any delay caused as aforesaid, completion shall be extended for a period equal to any such delay, and this contract shall not be void or voidable as a result of the delay. In the event work is temporarily discontinued by any of the foregoing, all unpaid installments of the contract price, les an amount equal to the value of material and labor not furnished, shall be due and payable upon receipt of invoice by Customer.

**30. One-Year Limitation on Actions; Choice of Law.** It is agreed that no suit, or cause of action or other proceeding shall be brought against either party more than one (1) year after the accrual of the cause of action or one (1) year after the claim arises, whichever is shorter, whether known or unknown when the claim arises or whether based on tort, contract, or any other legal theory. The laws of Massachusetts shall govern the validity, enforceability, and interpretation of this Agreement.

**31. Assignment.** Customer may not assign this Agreement without Company's prior written consent. Company may assign this Agreement to an affiliate without obtaining Customer's consent.

**32. Entire Agreement.** The parties intend this Agreement, together with any attachments or Riders (collectively the "Agreement) to be the final, complete and exclusive expression of their Agreement and the terms and conditions thereof. This Agreement supersedes all prior representations, understandings or agreements between the parties, written or oral, and shall constitute the sole terms and conditions of sale for all equipment and services. No waiver, change, or modification of any terms or conditions of this Agreement shall be binding on Company unless made in writing and signed by an Authorized Representative of Company.

**33. Severability.** If any provision of this Agreement is held by any court or other competent authority to be void or unenforceable in whole or in part, this Agreement will continue to be valid as to the other provisions and the remainder of the affected provision.

**34. Legal Fees.** Company shall be entitled to recover from the customer all reasonable legal fees incurred in connection with Company enforcing the terms and conditions of this Agreement.

**35. License Information** (Security System Customers): AL Alabama Electronic Security Board of Licensure 7956 Vaughn Road, Pmb 392, Montgomery, Alabama 36116 (334) 264-9388: AR Regulated by: Arkansas Board of Private Investigators And Private Security Agencies, #1 State Police Plaza Drive, Little Rock 72209 (501)618-8600: CA Alarm company operators are licensed and regulated by the Bureau of Security and Investigative Services, Department of Consumer Affairs, Sacramento, Ca, 95814. Upon completion of the installation of the alarm system, the alarm company shall thoroughly instruct the purchaser in the proper use of the alarm system. Failure by the licensee, without legal excuse, to substantially commence work within 20 days from the approximate date specified in the agreement when the work will begin is a violation of the Alarm Company Act: NY Licensed by N.Y.S. Department of the State: TX Texas Commission on Private Security, 5805 N. Lamar Blvd., Austin, 78752-4422, 512-424-7710. License numbers available at www.simplexgrinnell.com or contact your local SimplexGrinnell office.

(Rev. 10/08)

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***IMPORTANT NOTICE TO CUSTOMER***

In accepting this Proposal, Customer agrees to the terms and conditions contained herein including those on the following pages of this Agreement and any attachments or riders attached hereto that contain additional terms and conditions. It is understood that these terms and conditions shall prevail over any variation in terms and conditions on any purchase order or other document that the Customer may issue. Any changes in the system requested by the Customer after the execution of this Agreement shall be paid for by the Customer and such changes shall be authorized in writing. **ATTENTION IS DIRECTED TO THE LIMITATION OF LIABILITY, WARRANTY, INDEMNITY AND OTHER CONDITIONS ON THE FOLLOWING PAGES. This Proposal shall be void if not accepted in writing within thirty (30) days from the date of the Proposal.**

| | |
|---|---|
| Offered By:<br>SimplexGrinnell LP License#:<br><br>95 Shawmut Rd<br>CANTON, MA 02021-1428<br><br>Telephone: (617) 965 5900 Fax: 617-244-8197<br><br>Representative: Christopher J. Filanowski<br><br>Email: cfilanowski@simplexgrinnell.com | Accepted By: (Customer)<br><br>Company: _____<br><br>Address: _____<br><br>Signature: _____<br><br>Title: _____<br><br>P.O.#: _____ Date: _____ |

# FY2019 Requested: Deferred to FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | FPS/B&G/2019/A | **Budget Year:** | 2019 |
| **Project Title:** | Heating Ventilation Air Conditioning - 3 Schools | **Scenario:** | Main 2019 |
| **Asset Type:** | SCHOOL BUILDINGS | **Budget Status:** | Department Request |
| **Department:** | C3-971 - Building & Grounds Department | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2018 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

A schematic design was performed by CES (Consulting Engineering Services) to determine the cost to replace the exhaust fans at Walsh Elementary School, add cooling to the existing Framingham High School and McCarthy Elementary School HVAC systems. These projects may be advertised and bid separately.

## Comments:

## Justification:

We believe that all of these projects combined will be roughly two million dollars including final design work, preparation of bid documents, specifications & plans, OPM services, construction oversight, construction and project closeout costs.

The estimates for the work to be performed at the school are as follows:

| | |
|---|---|
| Walsh Middle School | $ 53,918 |
| McCarthy Elementary School | $873,598 |
| Framingham High School | $874,283 |

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 2,000,000 | 0 | 2,000,000 |
| | **2,000,000** | **0** | **2,000,000** |

## Project Details 2019

| Object | Description | | Total Amount |
|---|---|---|---|
| **Expense** | | | |
| 39710006-58300 | Improvements | | 2,000,000 |
| | | **Total Expense:** | **2,000,000** |

## 16. Heating Ventilation Air Conditioning (HVAC)

**FY19:**

A schematic design was performed by CES (Consulting Engineering Services) to determine the cost to replace the exhaust fans at Walsh Elementary School, add cooling to the existing Framingham High School and McCarthy Elementary School HVAC systems. These projects may be advertised and bid separately.

We believe that all of these projects combined will be roughly two million dollars including final design work, preparation of bid documents, specifications & plans, OPM services, construction oversight, construction and project closeout costs.

The estimates for the work to be performed at the school are as follows:

| | |
|---|---|
| Walsh Middle School | $ 53,918 |
| McCarthy Elementary School | $873,598 |
| Framingham High School | $874,283 |

**$2,000,000**

# Mechanical and Electrical Systems Conceptual Design Narrative

# For

**Walsh Middle School**
301 Brook Street
Framingham, MA

October 5, 2017

Prepared by:

Consulting Engineering Services, LLC

128 Carnegie Row Suite 204, Norwood, Massachusetts, 02062

CES PN 2017277.00

# Scope of Work

## I. EXECUTIVE SUMMARY

Consulting Engineering Services has been retained by the Town of Framingham to provide a schematic design for the mechanical and electrical systems associated with the replacement of exhaust fans at the Walsh Middle School in Framingham, MA. The existing building is located at 301 Brook Street.

## II. APPLICABLE CODES AND STANDARDS

The mechanical and electrical systems will be provided in conformance with the requirements of the following codes and regulations and all applicable local authority requirements.

A. 2016 Massachusetts State Building Code

B. 2016 Massachusetts State Fire Safety Code

C. 2009 International Mechanical Code

D. 2015 International Energy Conservation Code

E. NFPA, All applicable code sections, Latest Version

F. ASHRAE 90.1-2013

G. ASHRAE 62.1

H. 2014 National Electric Code

## III. MECHANICAL SYSTEMS:

## IV. Exhaust Fan Replacement

Remove existing exhaust fan and connect new exhaust fan to existing ductwork below roof. Provide galvanized curb adaptor where required below. Contractor to verify existing roof opening dimensions before ordering new fans.

The following exhaust fans shall be replaced:

1. EF-B1, 6900 CFM serving half of the boys gym. New model to be Greenheck GB-360-10, 1 Hp. Fan will need motor contactors. Two speed fan. 208 volt/3 phase/ 60 Hz.

2. EF-B2, 6900 CFM serving half of the boys gym. New model to be Greenheck GB-360-10, 1 Hp. Fan will need motor contactors. Two speed fan. 208 volt/3 phase/ 60 Hz.

3. EF-B4, 5000 CFM serving half of the girls gym. New model to be Greenheck GB-330-7, ¾ Hp. Fan will need motor contactors. Two speed fan. 208 volt/3 phase/ 60 Hz.

4. EF-B5, 5000 CFM serving half of the girls gym. New model to be Greenheck GB-330-7, ¾ Hp. Fan will need motor contactors. Two speed fan. 208 volt/3 phase/ 60 Hz.

5. EF-B7, 2350 CFM, serving the corrective gym. New model to be Greenheck GB-180-7, ¾ Hp, 120 volt/1 phase/ 60 Hz.

6. EF-B9, 950 CFM, serving guidance. New model to be Greenheck GB-121-4, ¼ Hp, 120 volt/1 phase/ 60 Hz.

7. EF-B14, 800 CFM, serving basket storage. New model to be Greenheck GB-121-4, ¼ Hp, 120 volt/1 phase/ 60 Hz.

8. EF-B16, 760 CFM, serving Storage. New model to be Greenheck GB-091-4, ¼ Hp, 120 volt/1 phase/ 60 Hz.

9. EF-C3, 380 CFM, serving toilets. New model to be Greenheck GB-081-6, 1/6 Hp, 120 volt/1 phase/ 60 Hz.

10. EF-D1, 380 CFM, serving shops. New model to be Greenheck GB-081-6, 1/6 Hp, 120 volt/1 phase/ 60 Hz.

11. EF-D2, 840 CFM, serving shops. New model to be Greenheck GB-121-5, ½ Hp, 120 volt/1 phase/ 60 Hz. EC motor direct drive with wall switch for speed control.

12. EF-D3, 520 CFM, serving office. New model to be Greenheck GB-081-6, 1/6 Hp, 120 volt/1 phase/ 60 Hz.

13. EF-D6, 500 CFM, serving shops. New model to be Greenheck GB-081-6, 1/6 Hp, 120 volt/1 phase/ 60 Hz.

14. EF-E2, 2400 CFM, serving Library. New model to be Greenheck GB-180-3, 1/3 Hp. 120 volt/1 phase/ 60 Hz.

15. EF-E10, 400 CFM, serving plant life. New model to be Greenheck GB-081-6, 1/6 Hp, 120 volt/1 phase/ 60 Hz.

## V. General Mechanical

1. Connect to existing Building Management System (BMS) installed at the building.
    a) The BMS shall integrate to the new exhaust fans.

## VI. Materials and Methods:

a) All motors provided shall be high efficiency or better.

b) Seismic restraints shall be installed as required per the State of Massachusetts Building Code. This includes piping and equipment. The contractor shall engage a qualified structural engineer to design the seismic restraint systems.

c) Provide mechanical identification for mechanical systems. Identification shall comply with ANSI A13.1.

d) Provide vibration isolation for equipment.

e) The contractor shall provide testing, adjusting and balancing (TAB) services for the new exhaust fans. All fans to be rebalanced to airflow shown on new fan.

## VII. ELECTRICAL SYSTEMS

## VIII. Electrical Service

1. Electrical contractor shall identify the branch circuits that feed each exhaust fan being replaced in conformance with the mechanical drawings.

2. Provide lock out/ tag out hardware at the applicable panelboard circuit breaker as each fan is being replaced. For each fan circuit the Electrical contractor shall disconnect the existing wiring system and temporarily pull back to a point below the roof. Once the mechanical contractor has installed the new fan the existing branch circuit shall be reconnected to the new fan. Where existing branch circuiting is of insufficient length to promote reconnection to the new fan provide a new MC cable whip that extends the existing circuit from a new junction box up to the new fan motor disconnect location.

## IX. Materials and Methods

1. Include the following basic materials and methods of construction:

   a) Wiring will be THHN/THWN copper, installed in EMT conduit to first device or exposed and MC cable for and remainder of circuit, and concealed work.

   b) All conduit installed in exterior location shall be Rigid Galvanized Steel, EMT with compression fittings, or Weatherproof Flexible Metallic Conduit.

   c) Receptacles shall be specification grade, NEMA 5-20R etc.

   d) Disconnect switches will be fusible heavy-duty type. NEMA 1 or 3R as required for the installation location.

   e) Circuit breakers will be fixed element, thermal magnetic type.

   f) Branch circuit breakers shall be bolt-on type.

   g) All conduits, circuits and devices will be labeled.

## X. Cost Estimate

a) Exhaust fans equipment only including curbs shall be approximately $24,500. With labor and installation the total would be $34,231.

b) Electrical equipment as outlined above for exhaust fan connections shall be approximately $7,500.

c) Grand total (mechanical plus electrical etc.) of $53,918.

Walsh Middle School Exhaust Fan Replacement Cost Estimate

| | Tag | CFM | Labor Cost | Fan Costs (15 qty( | Curbs (15 qty) | |
|---|---|---|---|---|---|---|
| Fans (material only) | | | | $ 21,000 | $ 3,500 | |
| Labor(p 335) | EF-B1 | 6900 | $ 355 | | | |
| | EF-B2 | 6900 | $ 355 | | | |
| | EF-B4 | 5000 | $ 266 | | | |
| | EF-B5 | 5000 | $ 266 | | | |
| | EF-B7 | 2350 | $ 212 | | | |
| | EF-B9 | 950 | $ 253 | | | |
| | EF-B14 | 800 | $ 212 | | | |
| | EF-B16 | 760 | $ 212 | | | |
| | EF-C3 | 380 | $ 177 | | | |
| | EF-D1 | 380 | $ 177 | | | |
| | EF-D2 | 840 | $ 253 | | | |
| | EF-D3 | 520 | $ 177 | | | |
| | EF-D6 | 500 | $ 177 | | | |
| | EF-E2 | 2400 | $ 212 | | | |
| | EF-E10 | 400 | $ 177 | | | |
| Shop Drawings | | | | | | $ 1,000 |
| testing and balancing(p266) | | | | | | $ 5,250 |
| Mechanical subtotal | | | | | | $ 34,231 |
| | | | | | | |
| Electrical | | | | | | $ 7,500 |
| Permitting | | | | $15/$1000 | | $ 809 |
| | | | | | | |
| Total +10% Estimate Contingency | | | | | | $ 46,794 |
| General Conditions | | | | @4% of estimate | | $ 1,872 |
| Existing Conditions | | | | @0.75% of estimate | | $ 351 |
| Total +10% Contruction Contingency | | | | | | $ 53,918 |
| Design costs previously submitted and approved by Framingham | | | | | | |

# FY2019 Requested: Deferred to FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | FPS/B&G/2019/E | **Budget Year:** | 2019 |
| **Project Title:** | Paving Replacement/Storm Water - Brophy School FY19 | **Scenario:** | Main 2019 |
| **Asset Type:** | PAVED PARKING LOTS | **Budget Status:** | Department Request |
| **Department:** | C3-971 - Building & Grounds Department | **Regions:** | |
| **Project Type:** | Stormwater Improvement | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | Jul 1, 2018 | **Project Partner:** | |
| **Est. Completion Date:** | Jun 30, 2019 | | |

## Description:

Multi-phased project with ongoing work to preserve, repair, and maintain school parking lots, driveways and storm water systems. As in the past, the Town Unit Pricing Contracts will be utilized.

## Comments:

## Justification:

This is an ongoing request for upgrades to existing school driveways, parking lots and storm water systems. This also ties to the NPDES (National Pollution Discharge Elimination System) requirement that all town buildings storm-water run-off including roofs is pretreated prior to allowing storm water to run into streams, brooks, ponds etc. All of this work is performed under the utilization of the Towns DPW Unit Pricing Contract

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 720,000 | 0 | 720,000 |
| | **720,000** | **0** | **720,000** |

**15. Paving - Brophy**

**FY19:**

This is an ongoing request for upgrades to existing school driveways, parking lots and storm water systems. This also ties to the NPDES (National Pollution Discharge Elimination System) requirement that all town buildings storm-water run-off including roofs is pretreated prior to allowing storm water to run into streams, brooks, ponds etc. All of this work is performed under the utilization of the Towns DPW Unit Pricing Contract.

**$ 720,000**

*****Please note that paving must be completed during the months of July and August when students are not in the schools. Requested amounts reflect the amount of construction and installation work that can be completed in this short time frame.**

BETA
ENGINEERING SUCCESS TOGETHER

Town of Framingham
Department of Public Works

Date: 10-04-2017

| Item No. | Estimated Quantity | Unit | Description | Estimated Unit Price (2016) | Total Price |
|---|---|---|---|---|---|
| 120.1 | 0 | CY | Unclassified Excavation | $ 0.01 | $ - |
| 129 | 13,444 | SY | Hot Mix Asphalt Pavement Milling | $ 6.00 | $ 80,666.67 |
| 170 | 50 | SY | Fine Grading and Compacting | $ 1.00 | $ 50.00 |
| 201.5 | 4 | EA | Catch Basin - Municipal Standard | $ 7,000.00 | $ 28,000.00 |
| 202.01 | 2 | EA | Manhole – Municipal Standard | $ 7,000.00 | $ 14,000.00 |
| 205.91 | 70 | EA | Precast Concrete Leaching Galley – (4'x4'x4') | $ 1,200.00 | $ 84,000.00 |
| 205.96 | 1 | EA | Water Quality Unit | $ 30,000.00 | $ 30,000.00 |
| 222.3 | 6 | EA | Frame and Grate (or Cover) Municipal Standard | $ 800.00 | $ 4,800.00 |
| 241.12 | 200 | FT | 12 Inch Reinforced Concrete Pipe | $ 125.00 | $ 25,000.00 |
| 241.18 | 200 | FT | 18 Inch Reinforced Concrete Pipe | $ 125.00 | $ 25,000.00 |
| 241.24 | 200 | FT | 24 Inch Reinforced Concrete Pipe | $ 125.00 | $ 25,000.00 |
| 455.23 | 1,600 | TON | Superpave Surface Course – 12.5 (SSC-12.5) | $ 90.00 | $ 144,000.00 |
| 455.31 | 1,600 | TON | Superpave Intermediate Course – 12.5 (SIC-12.5) | $ 90.00 | $ 144,000.00 |
| | | | | | $ |
| | | | | | $ |
| | | | | | $ |
| | | | | Subtotal | $ 604,516.67 |
| | | | | Contingency (10%) | $ 60,451.67 |
| | | | | Total | $ 664,968.34 |
| | | | | SAY | $ **665**,000.00 |

TOWN OF FRAMINGHAM
DEPARTMENT OF PUBLIC WORKS
FRAMINGHAM, MASSACHUSETTS 01702

*"Dedicated to Excellence in Public Service"*

PETER A. SELLERS
EXECUTIVE DIRECTOR | FDPW
PAUL G. BARDEN
DEPUTY DIRECTOR | FDPW
WILLIAM R. SEDEWITZ - PE
CHIEF ENGINEER | FDPW
DIANE M. CONNER
ASSISTANT DIRECTOR | FDPW

March 31, 2017

Mr. Richard A. DeFelice, President
Newport Construction Corp.
145 Temple Street
Nashua, NH 03060

Re: PW345 – On Call Road Rehabilitation
Executed Short Form Agreement Contract

Dear Mr. DeFelice:

Enclosed please find the executed Short Form of Agreement between the Town of Framingham and Newport Construction Corp. for PW-345 On Call Road Rehabilitation. This Agreement is for a term of one year commencing on March 30, 2017 and ending on March 29, 2018 and may be renewed at the sole option of the Town at the same prices, terms and conditions for up to two additional one-year periods.

Regards,

Ann O'Regan

Ann O'Regan
Capital Procurement Administrator

Enclosure (1)

cc: Daniel Nau, Director of Highway and Sanitation

# SHORT FORM OF AGREEMENT FOR CONSTRUCTION BETWEEN TOWN AND CONTRACTOR

THIS AGREEMENT for **On-Call Road Rehabilitation** (hereinafter referred to as the "Project"), is made the 30th **day of** March**, 2017,** by and between **Newport Construction Corp.,** a corporation duly organized under the laws of the State of New Hampshire, with a usual place of business at **145 Temple Street, Nashua, NH 03060,** (hereinafter referred to as the "CONTRACTOR"), and the Town of Framingham, a municipal corporation duly organized under the laws of the Commonwealth of Massachusetts, (hereinafter referred to as the "TOWN").

**WITNESSETH** that the CONTRACTOR and the TOWN, for the consideration hereinafter named, agree as follows:

***ARTICLE 1: Contract Documents***

The Contract Documents consist of the following, and in the event of conflicts or discrepancies among them, they shall be interpreted on the basis of the following priorities and in the manner most favorable to the Town:

This Short Form of Agreement for Procurement between Town and Contractor

General Conditions of the Construction Contract, as modified by the Supplementary Conditions

Specifications

Invitation for bids, bid specifications, request for proposals or purchase description

Drawings required for the project

Performance bond in the form attached hereto as **Exhibit A**

Payment bond in the form attached hereto as **Exhibit B**

Addenda issued prior to execution of the Agreement

Contractor's bid or proposal

Modifications issued after execution of the Agreement, which are not attached hereto, including the following:

Work Order issued by the Town

Written amendment to the Agreement signed by both parties

Change Order

Copies of all required bonds, certificates of insurance and licenses required under the Agreement

Notice to Proceed, which may be delivered or issued on or after the Effective Date of this Agreement and may not be attached hereto, and

Affirmative Action & Equal Employment Opportunity Requirements attached hereto as **Exhibit E;** the Summary of Conflict of Interest Law for Municipal Employees attached hereto as **Exhibit C**, as well as the acknowledgement of receipt of summary attached hereto as **Exhibit D** and confirmation of completion of online training; and any Statement of Compliance required pursuant to G.L. c, 149, § 27B.

EACH OF WHICH IS ATTACHED HERETO except as otherwise provided. These documents form the entire Agreement between the parties and there are no other agreements between the parties. Any amendment or modification to this Agreement must be in writing and signed by an official with the authority to bind the Town. Such amendment or modification shall be incorporated into and made part of this Agreement.

***ARTICLE 2: Scope Of Work***

The CONTRACTOR shall furnish all materials, labor and equipment, and perform all work shown on the Contract Documents, and the CONTRACTOR agrees to do everything required by this Agreement and the Contract Documents.

***ARTICLE 3: Term Of Agreement***

(a) This Agreement shall be for a term of (1) year, commencing on Mar 30, 2017 and ending on Mar 29, 2018, subject to annual appropriation as described in Article 7, "Termination." This Agreement may be renewed in writing at the sole option of the TOWN at the same prices, terms, and conditions for up to two (2) additional one-year periods by giving notice to the Contractor at least ninety (90) days prior to the expiration date.

(b) All time limits for Milestones, if any, Substantial Completion, and completion and readiness for final payment as stated in the Contract Documents are of the essence of the Agreement. The Contract involves on-call improvements at multiple locations throughout Town. There are no specific milestones associated with this contract.

(c) The Work will be substantially completed within three hundred sixty-five (365) days after the date when the Contract Times commence to run as provided in Paragraph 2.01 of the General Conditions, and completed and ready for final payment within 425 days after the date when the Contract Times commence to run.

(c)(i) The Framingham High School Work will be substantially completed within sixty-eight (68) days after the anticipated date for the final date of school of June 19, 2017 and the anticipated day for the start of school of August 28, 2017. Note: This work cannot begin prior to the final day of school for summer 2017 and must be completed prior to start of school in fall 2017.

(d) If the CONTRACTOR fails to substantially or finally complete the work or achieve any Milestone by the date specified in the Contract Documents, or an extended completion date which is mutually agreed upon by the TOWN and the CONTRACTOR, the CONTRACTOR shall pay to the TOWN not as a penalty but as liquidated damages the sum of $1,000.00 Dollars per day for each and every calendar day beyond the date on which completion was required. This amount is fixed and agreed upon by and between the TOWN and CONTRACTOR to be the amount of damages which the TOWN would sustain, and is based upon the parties' agreed upon reasonable estimate of those actual damages likely to result from the Contractor's breach hereunder. The TOWN's right to

assess liquidated damages shall not preclude the TOWN from the exercise of any other rights to recover damages on account of the CONTRACTOR's failure to achieve substantial or final completion within the time required.

### *ARTICLE 4: The Contract Sum*

This is a **unit price** contract. The CONTRACTOR agrees to provide to the TOWN items at the specific price points listed in the CONTRACTOR'S bid submission, for the duration of the contract. The TOWN makes no guarantee to purchase any minimum or specific quantity of goods or services under the provisions of this contract.

### *ARTICLE 5: Payment*

(a) Contractor shall submit Applications for Payment in accordance with Paragraph 14.02 of the General Conditions. Applications for Payment will be processed by Engineer as provided in the General Conditions.

(b) Prior to Substantial Completion, progress payments will be made in an amount equal to the percentage indicated below but, in each case, less the aggregate of payments previously made and less such amounts as Engineer may determine or Owner may withhold, including but not limited to liquidated damages, in accordance with Article 3 of this Agreement.

1. 95% of Work completed (with the balance being retainage).

2. 95% percent of cost of materials and equipment not incorporated in the Work

but which satisfies the requirements of Paragraph 14.02.A of the General Conditions (with the balance being retainage).

(c) Upon satisfaction of the Substantial Completion procedures set forth in Paragraph 14.04 of the General Conditions, the Town shall pay an amount sufficient to increase total payments to Contractor to 99% of the Work completed, less such amounts as Engineer may determine or Owner may withhold in accordance with Article 3 of this Agreement and Paragraph 14.04 of the General Conditions.

(d) Upon final completion and acceptance of the Work and satisfaction of the procedures set forth in Paragraph 14.06 of the General Conditions, the Town shall pay the remainder of the Contract Price as recommended by Engineer as provided in Paragraph 14.07 of the General Conditions.

### *ARTICLE 6: Contractor's Representations*

In order to induce the Town to enter into this Agreement, Contractor makes the following representations:

A. Contractor has examined and carefully studied the Contract Documents and the other related data identified in the Bidding Documents.

B. Contractor has visited the Site and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

C. Contractor is familiar with and is satisfied as to all federal, state, and local Laws and Regulations that may affect cost, progress, and performance of the Work.

D. Contractor has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site (except Underground Facilities), if any, that have been identified in the Contract Documents as containing reliable "technical data", and (2) reports and drawings of Hazardous Environmental Conditions, if any, at the Site that have been identified in the Contract Documents as containing reliable "technical data."

E. Contractor has considered information known to Contractor; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Contract Documents; and the Site-related reports and drawings identified in the Contract Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor, including any specific means, methods, techniques, sequences, and procedures of construction expressly required by the Contract Documents; and (3) Contractor's safety precautions and programs.

F. Based on the information and observations referred to in Paragraphs A through E above, Contractor does not consider that further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract Documents.

G. Contractor is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Contract Documents.

H. Contractor has given Owner written notice of all conflicts, errors, ambiguities, or discrepancies that Contractor has discovered in the Contract Documents, and the written resolution thereof by Owner is acceptable to Contractor.

I. The Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.

### *ARTICLE 7: Termination*

In addition to the provisions of Article 15 of the General Conditions, the TOWN shall have the right to terminate this Agreement if funds are not appropriated or otherwise made available to support the continuation of this Agreement after the first year.

### *ARTICLE 8: Notice*

All notices required to be given under this Agreement shall be in writing and shall be effective upon receipt by hand delivery or by registered or certified mail to:

**Town of Framingham:**
Contract Administrator
Town of Framingham
Department of Public Works
110 Western Avenue
Framingham, MA 01702

**Contractor:**
Name Richard A. DeFelice
Title President
Company Newport Construction Corp.
Address 145 Temple Street
Nashua, NH 03060
Phone: 603-882-1700
Fax: 603-882-2784
E-Mail: r.defelice@newportconstruct.com

### *ARTICLE 9: Performance and Payment Bonds*

When Contractor delivers the executed counterparts of the Agreement to Owner, Contractor shall also deliver performance and payment bonds as follows, subject to the additional requirements set forth in Paragraph 5.01 of the General Conditions:

(a) The CONTRACTOR shall furnish a **100% Performance Bond** from a surety company qualified to do business under the laws of the Commonwealth of Massachusetts which is satisfactory to the TOWN in the full amount of the Contract Price and in the form attached hereto as **Exhibit A**.

(b) The CONTRACTOR shall furnish a **100% Payment Bond** from a surety company qualified to do business under the laws of the Commonwealth of Massachusetts which is satisfactory to the TOWN in the full amount of the Contract Price and in the form attached hereto as **Exhibit B**.

***ARTICLE 9.5: Certification Of Foreign Corporation***

If Contractor is a foreign corporation as defined by G.L. c. 156D, § 1.40, then when Contractor delivers the executed counterparts of the Agreement to Owner, Contractor shall also deliver a certificate of the state secretary stating that the Contractor has complied with requirements of section 15.03 of subdivision A of Part 15 of chapter 156D and the date of compliance, and further has filed all annual reports required by section 16.22 of subdivision B of Part 16 of said chapter 156D.

***ARTICLE 10: Insurance***

In addition to the requirements set forth in Article 5 of the General Conditions, Contractor and its Subcontractors, consultants, and other parties performing or furnishing any portion of the Work shall purchase and maintain insurance as follows. When Contractor delivers the executed counterparts of the Agreement to Owner, and before any Work at the Site is started, Contractor shall deliver to Owner, with copies to each additional insured identified in the Supplementary Conditions, certificates of insurance (and other evidence of insurance which Owner or any additional insured may reasonably request, including copies of any insurance policies to which such certificates of insurance relate) for each insurance policy that Contractor is required to purchase and maintain in accordance herewith.

A. Contractor and its Subcontractors, consultants, and other parties performing or furnishing any portion of the Work shall purchase and maintain such insurance as is appropriate for the Work being performed and as will provide protection from claims set forth below which may arise out of or result from such party's performance of the Work and other obligations under the Contract Documents, whether it is to be performed by Contractor, any Subcontractor or Supplier, or by anyone directly or indirectly employed by any of them to perform any of the Work, or by anyone for whose acts any of them may be liable:

    1. claims under workers' compensation, disability benefits, and other similar employee benefit acts;

    2. claims for damages because of bodily injury, occupational sickness or disease, or death of the insured's employees;

    3. claims for damages because of bodily injury, sickness or disease, or death of any person other than the insured's employees;

    4. claims for damages which are sustained:

        a. by any person as a result of an offense directly or indirectly related to the employment of such person by the insured, or

b. by any other person for any other reason;

5. claims for damages, other than to the Work itself, because of injury to or destruction of tangible property wherever located, including loss of use resulting therefrom, including explosion, collapse, and underground coverages;

6. claims for damages because of bodily injury or death of any person or property damage arising out of the ownership, maintenance, or use of any motor vehicle;

7. claims for damages relating to Contractor's obligations under this Agreement;

8. claims for damages to property written as Builder's Risk Insurance; and
9. claims for damages resulting from release of hazardous waste due to Contractor's operations.

B. The policies of insurance required by this paragraph shall:

1. with respect to insurance required by paragraphs A.3 through A.7 inclusive, and A.9, be written on an occurrence basis, include as additional insureds Owner and Engineer, and any other individuals or entities required in the Contract Documents, all of whom shall be listed as additional insureds, and include coverage for the respective officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of all such additional insureds, and the insurance afforded to these additional insureds shall provide primary and non-contributory coverage for all claims covered thereby;

2. include at least the specific coverages and be written for not less than the liability provided as follows or required by Laws or Regulations, whichever is greater:

   a. Workers' Compensation, and related coverages under paragraphs A.1 and A.2 and in accordance with Massachusetts General Laws, Chapter 149, Section 34A:

| | |
|---|---|
| 1. State: | Statutory |
| 2. Applicable Federal (e.g., Longshoremen's) | Statutory |
| 3. Employer's Liability | $2,000,000 Each Accident<br>$2,000,000 Disease per Employee |

   b. Contractor's General Liability under paragraphs A.3 through A.6 which shall include completed operations and product liability coverages:

| | |
|---|---|
| 1. General Aggregate | $2,000,000 |
| 2. Products – Completed Operations Aggregate | $2,000,000 |
| 3. Personal and Advertising | |

| | |
|---|---|
| Injury | $1,000,000 |
| 4. Each Occurrence (Bodily Injury and Property Damage) | $1,000,000 |
| 5. Excess or Umbrella Liability | |
| General Aggregate | $5,000,000 |
| Each Occurrence | $5,000,000 |

c. Automobile Liability under paragraph A.6:

| | |
|---|---|
| 1. Bodily Injury: | |
| Each Person | $1,000,000 |
| Each Accident | $1,000,000 |
| 2. Property Damage: | |
| Each Accident | $1,000,000 |
| 3. Combined Single Limit of | $1,000,000 |

4. The policy shall include a CA 99 48 Broadened Pollution Endorsement. The Contractor, if hauling contaminants or pollutants, must adhere to Sections 29 and 30 of the Motor Carrier Act of 1980, which shall include coverage form MCS-90.

d. Property liability (Builder's risk):

1. Amount equal to insurable value of the Contract, including all structures, materials, and equipment to be built and installed.

e. The Contractual Liability coverage required by paragraph A.7 shall cover Contractor's indemnity obligations under the Agreement and provide coverage for not less than the following amounts:

| | |
|---|---|
| 1. Bodily Injury: | |
| Each Person | $2,000,000 |
| Each Accident | $2,000,000 |
| 2. Property Damage: | |
| Each Accident | $2,000,000 |
| Annual Aggregate | $2,000,000 |

f. The property insurance required by paragraph A.8 shall be written as Builder's Risk with an "All Risk" Installation Floater that shall at least include insurance for physical loss and damage to the Work, temporary buildings, falsework, and Work in transit and shall insure against at least the following perils: fire, lightning, extended coverage, theft, vandalism and malicious theft, earthquake, collapse, debris removal, demolition occasioned by enforcement of Laws and Regulations, and water damage, and be written in the completed value form. Such policy shall cover expenses incurred in the repair or replacement of any insured property (including but not limited to fees and charges of engineers and

architects) and materials and equipment in transit for incorporation into the Work or stored at the Site or at another location that was agreed to in writing by Owner prior to being incorporated into the Work, provided that such materials and equipment have been included in an Application for Payment recommended by Engineer. Such policy shall include the interests of Owner, Contractor, Subcontractors, Engineer, and Owner's and Engineer's Consultants, each of whom is deemed to have an insurable interest, and each shall be listed as an insured or additional insured.

g. The Contractor's Pollution Insurance coverage required by paragraph A.9 shall cover bodily injury and property damage resulting from liability arising out of pollution related exposures such as asbestos abatement, lead paint abatement, tank removal, removal of contaminated soil, etc. The insurance policy shall cover the liability of the Contractor during the process of removal, storage, transport and disposal of hazardous waste and contaminated soil and/or asbestos abatement. The policy shall include coverage for on-Site and off-Site bodily injury and loss of, damage to, or loss of use of property, directly or indirectly arising out of the discharge, dispersal, release or escape of smoke, vapors, soot, fumes, acids, alkalis, toxic chemicals, liquids or gas, waste materials or other irritants, contaminants or pollutants into or upon the land, the atmosphere or any water course or body of water, whether it be gradual or sudden and accidental. The policy shall also include defense and clean-up costs. The amount of coverage shall be as follows:

1. Limit of Liability:

| | |
|---|---|
| Each Occurrence | $1,000,000 |
| Aggregate | $3,000,000 |

3. contain a provision or endorsement that the coverage afforded will not be canceled, materially changed, or renewal refused until at least 30 days prior written notice has been given to Owner and Contractor and to each other additional insured identified in the Contract Documents to whom a certificate of insurance has been issued (and the certificates of insurance furnished by the Contractor pursuant to the Agreement will so provide);

4. remain in effect through final payment and at all times thereafter when Contractor may be correcting, removing, or replacing defective Work in accordance with Paragraph 13.06 or Paragraph 13.07 of the General Conditions; and

5. include completed operations coverage:

   a. Such insurance shall remain in effect for two years after final payment.

   b. Contractor shall furnish Owner and each other additional insured identified in the Contract Documents, to whom a certificate of insurance has been issued,

evidence satisfactory to Owner and any such additional insured of continuation of such insurance at final payment and one year thereafter.

### *ARTICLE 11: Indemnification*

B. To the fullest extent permitted by Laws and Regulations, Contractor shall indemnify, defend, and hold harmless Owner and Engineer and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or other dispute resolution costs) for or on account of or relating to any act, omission, or negligence of the Contractor, Subcontractors, or its or their agents or employees in the performance of the Work and/or their failure to comply with the terms and conditions of this Agreement. The foregoing provision shall not be deemed to be released, waived, or modified in any respect by reason of any surety or insurance provided by Contractor.

C. In any and all claims against Owner or Engineer or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors by any employee (or the survivor or personal representative of such employee) of Contractor, any Subcontractor, any Supplier, or any individual or entity directly or indirectly employed by any of them to perform any of the Work, or anyone for whose acts any of them may be liable, the indemnification obligation under this Agreement shall not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for Contractor or any such Subcontractor, Supplier, or other individual or entity under workers' compensation acts, disability benefit acts, or other employee benefit acts.

### *ARTICLE 12: Mandatory Ethics Training*

A summary of the Conflict of Interest Law is attached hereto as Exhibit C, and must be distributed to all key employees of the Contractor whose services are specifically required by name, implication or understanding of the parties. Pursuant to Chapter 28 of the Acts of 2009, as amended, all key employees must complete online ethics training on the State Ethics Commission's website, www.mass.gov/ethics. Within thirty (30) days of the date of this Agreement, each key employee must provide to the Town Clerk (with a copy to the Department of Public Works) a signed acknowledgement of receipt of the summary of the Conflict of Interest Law, in the form attached hereto as Exhibit D, and a certificate of completion of the online training which must be printed at the completion of the training. In the event that the term of this agreement extends for more than two years, all continuously employed key employees shall repeat the online training and provide the Town with a new certificate of completion within ninety (90) before or ninety (90) days after the two-year anniversary of the date of this Agreement. Any new key employee who becomes employed by the Consultant after the date of this Agreement and whose services are specifically required by this Agreement must complete the online training and provide the Town with a certificate of completion within thirty (30) days of the date on which his or her services commence pursuant to this Agreement. Satisfaction of

these requirements is the sole responsibility of the Consultant and its key employees, and the town shall have no liability for the Consultant's or its key employees' failure to meet these requirements.

### *ARTICLE 13: Affirmative Action and Equal Employment Opportunity*

Contractor shall use reasonable efforts to utilize and subcontract with qualified Minority Enterprise (MBE) and Women Business Enterprise (WBE) firms for participation on this Agreement. Utilization of MBE and WBE firms shall be in accordance with certification criteria established by the Supplier Diversity Office (SDO) of the Massachusetts Division of Occupational Safety or other certification sources acceptable to Town. Contractor shall comply with the requirements of G.L. c. 151 governing non-discrimination in employment; Town of Framingham General Bylaws Article I, Section 4; and the Affirmative Action & Equal Employment Opportunity Requirements attached hereto as **Exhibit E.**

### *ARTICLE 14: Miscellaneous*

B. This Agreement shall be binding upon the TOWN and the CONTRACTOR and the partners, successors, heirs, executors, administrators, assigns and legal representatives of the TOWN and the CONTRACTOR. Neither the TOWN nor the CONTRACTOR shall assign, sublet or transfer any interest in this Agreement without the written consent of each other, and such consent shall not be unreasonably withheld.

C. Terms used in this Agreement will have the meanings stated in the General Conditions and the Supplementary Conditions.

**D.** Any provision or part of the Contract Documents held to be void or unenforceable under any Law or Regulation shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon Owner and Contractor, who agree that the Contract Documents shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

THE REMAINDER OF THIS PAGE IS LEFT BLANK INTENTIONALLY

**IN WITNESS WHEREOF** the parties hereto have executed copies of this Agreement the day and year first above written. *

*If a Corporation, attach to each signed copy of this Contract an attested copy of the vote of the Corporation on authorizing the said signing and sealing.

**CONTRACTOR: Newport Construction Corp.**

BY: _____

Title: Richard A. DeFelice, President

Dated 03/24/17

Corporate Seal:

William R. Sedewitz

**William R. Sedewitz, P.E.**
**Chief Engineer**
**Department of Public Works**

Dated: 3/30/17

***Approved As To Form***

Jennifer Pratt (alp)

**Jennifer A. Pratt**
**Chief Procurement Officer**

Dated: 3/30/17

Christopher J. Petrini

**Christopher J. Petrini**
**Town Counsel**

Dated: 3/30/17

***Approved as to Funds Availability will be confirmed by issuance of official Town of Framingham purchase order(s).***

Richard G. Howarth

**Richard G. Howarth**
**Town Accountant**

Dated: 3/30/17

**Funding Source:**
Requisition Number: N/A On-Call Unit Price Contract
Org: _____ Obj: _____ Project: _____

**Procurement Source:**
Bid # PW-345
State Contract # _____
MHEC Contract # _____
Other _____

EXECUTED IN FOUR (4) COUNTERPARTS

## Exhibit A - Performance Bond

Bond No. 2251410

KNOW ALL MEN BY THESE PRESENT, that we Newport Construction Corp. with a place of business at 145 Temple St., Nashua NH 03060 as principal (the "Principal"), and North American Specialty Insurance Company a corporation qualified to do business in the Commonwealth of Massachusetts, with a place of business at Needham MA as Surety (the "Surety"), are held and firmly bound unto the Town of Framingham as Obligee (the "Obligee"), in the sum of Four Million Seven Hundred Seventy One Thousand Five Hundred and 00/100ths ($4,771,500.00) lawful money of the United States of America, to be paid to the Obligee, for which payment, well and truly to be made, we bind ourselves, our respective heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these present.

WHEREAS, the Principal has assumed and made a contract with the Obligee, bearing the date of March 24, 2017, for the **PW-345 On-Call Road Rehabilitation** Framingham MA

NOW THE CONDITIONS of this obligation are such that if the Principal and all Subcontractors under said contract shall well and truly keep and perform all the undertakings, covenants, agreement, terms, and conditions of said contract on its part to be kept and performed during the original term of said contract and any extensions thereof that may be granted by the Obligee, with or without notice to the Surety, and during the life and any guarantee required under the contract, and shall also well and truly keep and perform all the undertakings, covenants, agreements, terms and conditions of any and all duly authorized modifications, alterations, changes or additions being hereby waived, then this obligation shall become null and void; otherwise, it shall remain in full force and virtue.

IN THE EVENT the Contract is abandoned by the Principal, or is terminated by the Town of Framingham under the applicable provisions of the Contract, the Surety hereby further agrees that the Surety shall, if requested in writing by the Town of Framingham promptly take such action as is necessary to complete said Contract in accordance with its terms and conditions.

IN WITNESS WHEREOF, the Principal and Surety have hereto set their hands and seals this 27th day of March, 2017.

NEWPORT CONSTRUCTION CORP.
PRINCIPAL

Richard A. DeFelice
[Name and Seal]

President
[Title]

Attest:

NORTH AMERICAN SPECIALTY INSURANCE COMPANY
SURETY

Kathleen M Flanagan
[Attorney-In-Fact]

160 Gould Street, Needham MA 02494
[Address]

(781) 657-2102
[Phone]

Attest: Marion R. Vail
Marion R Vail, Witness

The rate of the Bond is 1.5 % of the first $ 100,000 and 1 % for the next $ 400,000.
The total premium for this Bond is $ 31,993.00.

END OF PERFORMANCE BOND

EXECUTED IN FOUR (4) COUNTERPARTS

# Exhibit B - Payment Bond

Bond No. 2251410

KNOW ALL MEN BY THESE PRESENT, that we Newport Construction Corp. with a place of business at 145 Temple Street, Nashua NH 03060 as principal (the "Principal"), and North American Specialty Insurance Company, a corporation qualified to do business in the Commonwealth of Massachusetts, with a place of business at Needham MA as Surety (the "Surety"), are held and firmly bound unto Town of Framingham as Obligee (the "Obligee"), in the sum of Four Million Seven Hundred Seventy One Thousand Five Hundred & 00/100ths ($4,771,500.00) lawful money of the United States of America, to be paid to the Obligee, for which payment, well and truly to be made, we bind ourselves, our respective heirs, executors, administrators, successors and assigns, jointly and severally, firmly by these present.

WHEREAS, the Principal has assumed and made a contract with the Obligee, bearing the date of March 24 2017, for the **PW-345-On Call Road Rehabilitation**, Framingham MA

NOW, THE CONDITIONS of this obligation are such that if the Principal and all subcontractors under said contract shall pay for all labor performed or furnished and for all materials used or employed in said contract and in any and all duly authorized modifications, alterations, extensions of time, changes or additions to said contract that may hereafter be made, notice to the Surety of such modifications, alterations, extensions of time, changes or additions being hereby waived, the foregoing to include any other purposes or items set out in, and to be subject to, the provisions of Massachusetts General Laws, Chapter 30, Section 39A, and Chapter 149, Section 29, as amended then this obligation shall become null and void; otherwise, it shall remain in full force and virtue.

IN WITNESS WHEREFORE, the Principal and Surety have hereto set their hands and seals this 27th day of March, 2017.

NEWPORT CONSTRUCTION CORP.
PRINCIPAL

Richard A. DeFelice
[Name and Seal]

President
[Title]

Attest:

NORTH AMERICAN SPECIALTY INSURANCE COMPANY
SURETY

Kathleen M Flanagan
[Attorney-In-Fact][Seal]

160 Gould St., Needham MA 02494
[Address]

(781) 657-21-2
[Phone]

Attest: Marion R. Vail
Marion R Vail, Witness

The rate for this Bond is 1.5 % of the first $ 100,000 and 1 % for the next $ 400,000.

The total premium for this Bond is $ See Performance Bond.

END OF PAYMENT BOND

## NAS SURETY GROUP

NORTH AMERICAN SPECIALTY INSURANCE COMPANY
WASHINGTON INTERNATIONAL INSURANCE COMPANY

## GENERAL POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS, THAT North American Specialty Insurance Company, a corporation duly organized and existing under laws of the State of New Hampshire, and having its principal office in the City of Manchester, New Hampshire, and Washington International Insurance Company, a corporation organized and existing under the laws of the State of New Hampshire and having its principal office in the City of Schaumburg, Illinois, each does hereby make, constitute and appoint:

RICHARD A. LEVERONI, KATHLEEN M. FLANAGAN, SANDRA C. LOPES, NICOLE ROY, DONALD H. McCARTER, MARION R. VAIL, NICHOLAS LABBE, JEAN M. FEENEY

WOODROW M. BAIRD, RUSSELL M. CANTERBURY, JOANN DOMBROWSKI, JESSICA L. PICCIRILLO, LAURIE ROTHWELL, and JOHN E. DICHIARO

JOINTLY OR SEVERALLY

Its true and lawful Attorney(s)-in-Fact, to make, execute, seal and deliver, for and on its behalf and as its act and deed, bonds or other writings obligatory in the nature of a bond on behalf of each of said Companies, as surety, on contracts of suretyship as are or may be required or permitted by law, regulation, contract or otherwise, provided that no bond or undertaking or contract or suretyship executed under this authority shall exceed the amount of:

FIFTY MILLION ($50,000,000.00) DOLLARS

This Power of Attorney is granted and is signed by facsimile under and by the authority of the following Resolutions adopted by the Boards of Directors of both North American Specialty Insurance Company and Washington International Insurance Company at meetings duly called and held on the 9th of May, 2012:

"RESOLVED, that any two of the Presidents, any Managing Director, any Senior Vice President, any Vice President, any Assistant Vice President, the Secretary or any Assistant Secretary be, and each or any of them hereby is authorized to execute a Power of Attorney qualifying the attorney named in the given Power of Attorney to execute on behalf of the Company bonds, undertakings and all contracts of surety, and that each or any of them hereby is authorized to attest to the execution of any such Power of Attorney and to attach therein the seal of the Company; and it is

FURTHER RESOLVED, that the signature of such officers and the seal of the Company may be affixed to any such Power of Attorney or to any certificate relating thereto by facsimile, and any such Power of Attorney or certificate bearing such facsimile signatures or facsimile seal shall be binding upon the Company when so affixed and in the future with regard to any bond, undertaking or contract of surety to which it is attached."

NORTH AMERICAN SPECIALTY INSURANCE COMPANY CORPORATE SEAL 1973 NEW HAMPSHIRE

By _____
Steven P. Anderson, Senior Vice President of Washington International Insurance Company
& Senior Vice President of North American Specialty Insurance Company

By _____
Michael A. Ito, Senior Vice President of Washington International Insurance Company
& Senior Vice President of North American Specialty Insurance Company

WASHINGTON INTERNATIONAL INSURANCE COMPANY CORPORATE SEAL NEW HAMPSHIRE

IN WITNESS WHEREOF, North American Specialty Insurance Company and Washington International Insurance Company have caused their official seals to be hereunto affixed, and these presents to be signed by their authorized officers this 6th day of November, 2014.

**North American Specialty Insurance Company**
**Washington International Insurance Company**

State of Illinois
County of Cook ss:

On this 6th day of November, 2014, before me, a Notary Public personally appeared Steven P. Anderson, Senior Vice President of Washington International Insurance Company and Senior Vice President of North American Specialty Insurance Company and Michael A. Ito, Senior Vice President of Washington International Insurance Company and Senior Vice President of North American Specialty Insurance Company, personally known to me, who being by me duly sworn, acknowledged that they signed the above Power of Attorney as officers of and acknowledged said instrument to be the voluntary act and deed of their respective companies.

OFFICIAL SEAL
M KENNY
NOTARY PUBLIC, STATE OF ILLINOIS
MY COMMISSION EXPIRES 12/04/2017

M. Kenny, Notary Public

I, Jeffrey Goldberg, the duly elected Assistant Secretary of North American Specialty Insurance Company and Washington International Insurance Company, do hereby certify that the above and foregoing is a true and correct copy of a Power of Attorney given by said North American Specialty Insurance Company and Washington International Insurance Company, which is still in full force and effect.

IN WITNESS WHEREOF, I have set my hand and affixed the seals of the Companies this 27th day of March, 2017.

Bond No. 2251410

Jeffrey Goldberg, Vice President & Assistant Secretary of
Washington International Insurance Company & North American Specialty Insurance Company

## Exhibit C - Summary Of The Conflict Of Interest Law

### Mandatory Training Requirements - Summaries and Online Training

### Mandatory educational requirements under the Ethics Reform Bill

Summary of the Conflict of Interest Law for Municipal Employees

By December 28, 2009, and on an annual basis thereafter, all current municipal employees must be provided with this summary of the conflict of interest law. Municipal employees hired after December 28, 2009, should be provided with the summary within 30 days of the date on which they commence employment, and on an annual basis thereafter. Every municipal employee is required to sign a written acknowledgment that he has been provided with the summary.

Online Training Program

www.mass.gov/ethics - Under Education & Training Resources
By 12/28/09, and every 2 years thereafter, all current state, county and municipal employees must complete this training. Public employees hired after 12/28/09 must complete this training within 30 days of beginning public service, and every 2 years thereafter. This training is designed primarily for state employees. County and municipal employees should also use this training until it is revised with one tailored to them. Upon completing the program, employees should print out the completion certificate and keep a copy for themselves. Employees will be required to provide a copy of the completion certificate to the Town or City Clerk (municipal employees), their employing agency (appointed state and county employees), or to the Ethics Commission (elected state and county employees). Completing the single program will be considered by the Commission as meeting the Bill's training requirements until a second program is added. When multiple users attempt to complete the current training program using the same computer they may experience a problem accessing the beginning of the program. The user will need to open their internet browser, click on "Tools", then "Internet Options", select "Delete Cookies", then click "OK". The user will be able to click back on the Online Training module on the Commission's website and start at the beginning.

**********

**After you have completed the Online Training, print out the "State Ethics Commission Receipt", and return with the receipt entitled "Conflict of Interest Law".**

## Summary of the Conflict of Interest Law for Municipal Employees

This summary of the conflict of interest law, General Laws chapter 268A, is intended to help municipal employees understand how that law applies to them. This summary is not a substitute for legal advice, nor does it mention every aspect of the law that may apply in a particular situation. Municipal employees can obtain free confidential advice about the conflict of interest law from the Commission's Legal Division at our website, phone number, and address above. Municipal counsel may also provide advice.

The conflict of interest law seeks to prevent conflicts between private interests and public duties, foster integrity in public service, and promote the public's trust and confidence in that service by placing restrictions on what municipal employees may do on the job, after hours, and after leaving public service, as described below. The sections referenced below are sections of G.L. c. 268A.

When the Commission determines that the conflict of interest law has been violated, it can impose a civil penalty of up to $10,000 ($25,000 for bribery cases) for each violation. In addition, the Commission can order the violator to repay any economic advantage he gained by the violation, and to make restitution to injured third parties. Violations of the conflict of interest law can also be prosecuted criminally.

I. Are you a municipal employee for conflict of interest law purposes?

You do not have to be a full-time, paid municipal employee to be considered a municipal employee for conflict of interest purposes. Anyone performing services for a city or town or holding a municipal position, whether paid or unpaid, including full- and part- time municipal employees, elected officials, volunteers, and consultants, is a municipal employee under the conflict of interest law. An employee of a private firm can also be a municipal employee, if the private firm has a contract with the city or town and the employee is a "key employee" under the contract, meaning the town has specifically contracted for her services. The law also covers private parties who engage in impermissible dealings with municipal employees, such as offering bribes or illegal gifts.

II. On-the-job restrictions.

**(a) <u>Bribes</u>. Asking for and taking bribes is prohibited. (See Section 2)**

A bribe is anything of value corruptly received by a municipal employee in exchange for the employee being influenced in his official actions. Giving, offering, receiving, or asking for a bribe is illegal.

Bribes are more serious than illegal gifts because they involve corrupt intent. In other words, the municipal employee intends to sell his office by agreeing to do or not do some official act, and the giver intends to influence him to do so. Bribes of any value are illegal.

**(b) <u>Gifts and gratuities</u>. Asking for or accepting a gift because of your official position, or because of something you can do or have done in your official position, is prohibited. (See Sections 3, 23(b)(2), and 26)**

Municipal employees may not accept gifts and gratuities valued at $50 or more given to influence their official actions or because of their official position. Accepting a gift intended to reward past official action or to bring about future official action is illegal, as is giving such gifts. Accepting a gift given to you because of the municipal position you hold is also illegal. Meals, entertainment event tickets, golf, gift baskets, and payment of travel expenses can all be illegal gifts if given in connection with official action or position, as can anything worth $50 or more. A number of smaller gifts together worth $50 or more may also violate these sections.

***Example of violation***: A town administrator accepts reduced rental payments from developers.

***Example of violation***: A developer offers a ski trip to a school district employee who oversees the developer's work for the school district.

**<u>Regulatory exemptions</u>**. There are situations in which a municipal employee's receipt of a gift does not present a genuine risk of a conflict of interest, and may in fact advance the public interest. The Commission has created exemptions permitting giving and receiving gifts in these situations. One commonly used exemption permits municipal employees to accept payment of travel-related expenses when doing so advances a public purpose. Another commonly used exemption permits municipal employees to accept payment of costs involved in attendance at educational and training programs. Other exemptions are listed on the Commission's website.

***Example where there is no violation***: A fire truck manufacturer offers to pay the travel expenses of a fire chief to a trade show where the chief can examine various kinds of fire-fighting equipment that the town may purchase. The chief fills out a disclosure form and obtains prior approval from his appointing authority.

***Example where there is no violation***: A town treasurer attends a two-day annual school featuring multiple substantive seminars on issues relevant to treasurers. The annual school is paid for in part by banks that do business with town treasurers. The treasurer is only required to make a disclosure if one of the sponsoring banks has official business before her in the six months before or after the annual school.

**(c) <u>Misuse of position</u>. Using your official position to get something you are not entitled to, or to get someone else something they are not entitled to, is prohibited. Causing someone else to do these things is also prohibited. (See Sections 23(b)(2) and 26)**

A municipal employee may not use her official position to get something worth $50 or more that would not be properly available to other similarly situated individuals. Similarly, a municipal employee may not use her official position to get something worth $50 or more for someone else that would not be properly available to other similarly situated individuals. Causing someone else to do these things is also prohibited.

***Example of violation***: A full-time town employee writes a novel on work time, using her office computer, and directing her secretary to proofread the draft.

***Example of violation***: A city councilor directs subordinates to drive the councilor's wife to and from the grocery store.

***Example of violation***: A mayor avoids a speeding ticket by asking the police officer who stops him, "Do you know who I am?" and showing his municipal I.D.

**(d) <u>Self-dealing and nepotism</u>. Participating as a municipal employee in a matter in which you, your immediate family, your business organization, or your future employer has a financial interest is prohibited. (See Section 19)**

A municipal employee may not participate in any particular matter in which he or a member of his immediate family (parents, children, siblings, spouse, and spouse's parents, children, and siblings) has a financial interest. He also may not participate in any particular matter in which a prospective employer, or a business organization of which he is a director, officer, trustee, or employee has a financial interest. Participation includes discussing as well as voting on a matter, and delegating a matter to someone else.

A financial interest may create a conflict of interest whether it is large or small, and positive or negative. In other words, it does not matter if a lot of money is involved or only a little. It also does not matter if you are putting money into your pocket or taking it out. If you, your immediate family, your business, or your employer have or has a financial interest in a matter, you may not participate. The financial interest must be direct and immediate or reasonably foreseeable to create a conflict. Financial interests which are remote, speculative or not sufficiently identifiable do not create conflicts.

***Example of violation***: A school committee member's wife is a teacher in the town's public schools. The school committee member votes on the budget line item for teachers' salaries.

***Example of violation***: A member of a town affordable housing committee is also the director of a non-profit housing development corporation. The non-profit makes an application to the committee, and the member/director participates in the discussion.

***Example:*** A planning board member lives next door to property where a developer plans to construct a new building. Because the planning board member owns abutting property, he is presumed to have a financial interest in the matter. He cannot participate unless he provides the State Ethics Commission with an opinion from a qualified independent appraiser that the new construction will not affect his financial interest.

In many cases, where not otherwise required to participate, a municipal employee may comply with the law by simply not participating in the particular matter in which she has a financial interest. She need not give a reason for not participating.

There are several exemptions to this section of the law. An appointed municipal employee may file a written disclosure about the financial interest with his appointing authority, and seek permission to participate notwithstanding the conflict. The appointing authority may grant written permission if she determines that the financial interest in question is not so substantial that it is likely to affect the integrity of his services to the municipality. Participating without disclosing the financial interest is a violation. Elected employees cannot use the disclosure procedure because they have no appointing authority.

***Example where there is no violation***: An appointed member of the town zoning advisory committee, which will review and recommend changes to the town's by-laws with regard to a commercial district, is a partner at a company that owns commercial property in the district. Prior to participating in any committee discussions, the member files a disclosure with the zoning board of appeals that appointed him to his position, and that board gives him a written determination authorizing his participation, despite his company's financial interest. There is no violation.

There is also an exemption for both appointed and elected employees where the employee's task is to address a matter of general policy and the employee's financial interest is shared with a substantial portion (generally 10% or more) of the town's population, such as, for instance, a financial interest in real estate tax rates or municipal utility rates.

**Regulatory exemptions**. In addition to the statutory exemptions just mentioned, the Commission has created several regulatory exemptions permitting municipal employees to participate in particular matters notwithstanding the presence of a financial interest in certain very specific situations when permitting them to do so advances a public purpose. There is an exemption permitting school committee members to participate in setting school fees that will affect their own children if they make a prior written disclosure. There is an exemption permitting town clerks to perform election-related functions even when they, or their immediate family members, are on the ballot, because clerks' election-related functions are extensively regulated by other laws. There is also an exemption permitting a person serving as a member of a municipal board pursuant to a legal requirement that the board have members with a specified affiliation to participate fully in determinations of general policy by the board, even if the entity with which he is affiliated has a financial interest in the matter. Other exemptions are listed in the Commission's regulations, available on the Commission's website.

***Example where there is no violation***: A municipal Shellfish Advisory Board has been created to provide advice to the Board of Selectmen on policy issues related to shellfishing. The Advisory Board is required to have members who are currently commercial fishermen. A board member who is a commercial fisherman may participate in determinations of general policy in which he has a financial interest common to all commercial fishermen, but may not participate in determinations in which he alone has a financial interest, such as the extension of his own individual permits or leases.

**(e) False claims. Presenting a false claim to your employer for a payment or benefit is prohibited, and causing someone else to do so is also prohibited. (See Sections 23(b)(4) and 26)**

A municipal employee may not present a false or fraudulent claim to his employer for any payment or benefit worth $50 or more, or cause another person to do so.

***Example of violation***: A public works director directs his secretary to fill out time sheets to show him as present at work on days when he was skiing.

**(f) Appearance of conflict. Acting in a manner that would make a reasonable person think you can be improperly influenced is prohibited. (See Section 23(b)(3))**

A municipal employee may not act in a manner that would cause a reasonable person to think that she would show favor toward someone or that she can be improperly influenced. Section 23(b)(3) requires a municipal employee to consider whether her relationships and affiliations could prevent her from acting fairly and objectively when she performs her duties for a city or town. If she cannot be fair and objective because of a relationship or affiliation, she should not perform her duties. However, a municipal employee, whether elected or appointed, can avoid violating this provision by making a public disclosure of the facts. An appointed employee must make the disclosure in writing to his appointing official.

***Example where there is no violation***: A developer who is the cousin of the chair of the conservation commission has filed an application with the commission. A reasonable person could conclude that the chair might favor her cousin. The chair files a written disclosure with her appointing authority explaining her relationship with her cousin prior to the meeting at which the application will be considered. There is no violation of Sec. 23(b)(3).

**(g) Confidential information. Improperly disclosing or personally using confidential information obtained through your job is prohibited. (See Section 23(c))**

Municipal employees may not improperly disclose confidential information, or make personal use of non-public information they acquired in the course of their official duties to further their personal interests.

III. After-hours restrictions.

**(a) Taking a second paid job that conflicts with the duties of your municipal job is prohibited. (See Section 23(b)(1))**

A municipal employee may not accept other paid employment if the responsibilities of the second job are incompatible with his or her municipal job.

***Example***: A police officer may not work as a paid private security guard in the town where he serves because the demands of his private employment would conflict with his duties as a police officer.

**(b) Divided loyalties. Receiving pay from anyone other than the city or town to work on a matter involving the city or town is prohibited. Acting as agent or attorney for anyone**

**other than the city or town in a matter involving the city or town is also prohibited whether or not you are paid. (See Sec. 17)**

Because cities and towns are entitled to the undivided loyalty of their employees, a municipal employee may not be paid by other people and organizations in relation to a matter if the city or town has an interest in the matter. In addition, a municipal employee may not act on behalf of other people and organizations or act as an attorney for other people and organizations in which the town has an interest. Acting as agent includes contacting the municipality in person, by phone, or in writing; acting as a liaison; providing documents to the city or town; and serving as spokesman.

A municipal employee may always represent his own personal interests, even before his own municipal agency or board, on the same terms and conditions that other similarly situated members of the public would be allowed to do so. A municipal employee may also apply for building and related permits on behalf of someone else and be paid for doing so, unless he works for the permitting agency, or an agency which regulates the permitting agency.

***Example of violation***: A full-time health agent submits a septic system plan that she has prepared for a private client to the town's board of health.

***Example of violation***: A planning board member represents a private client before the board of selectmen on a request that town meeting consider rezoning the client's property.

While many municipal employees earn their livelihood in municipal jobs, some municipal employees volunteer their time to provide services to the town or receive small stipends. Others, such as a private attorney who provides legal services to a town as needed, may serve in a position in which they may have other personal or private employment during normal working hours. In recognition of the need not to unduly restrict the ability of town volunteers and part-time employees to earn a living, the law is less restrictive for "special" municipal employees than for other municipal employees.

The status of "special" municipal employee has to be assigned to a municipal position by vote of the board of selectmen, city council, or similar body. A position is eligible to be designated as "special" if it is unpaid, or if it is part-time and the employee is allowed to have another job during normal working hours, or if the employee was not paid for working more than 800 hours during the preceding 365 days. It is the position that is designated as "special" and not the person or persons holding the position. Selectmen in towns of 10,000 or fewer are automatically "special"; selectman in larger towns cannot be "specials."

If a municipal position has been designated as "special," an employee holding that position may be paid by others, act on behalf of others, and act as attorney for others with respect to matters before municipal boards other than his own, provided that he has not officially participated in the matter, and the matter is not now, and has not within the past year been, under his official responsibility.

*Example*: A school committee member who has been designated as a special municipal employee appears before the board of health on behalf of a client of his private law practice, on a matter that he has not participated in or had responsibility for as a school committee member. There is no conflict. However, he may not appear before the school committee, or the school department, on behalf of a client because he has official responsibility for any matter that comes before the school committee. This is still the case even if he has recused himself from participating in the matter in his official capacity.

*Example*: A member who sits as an alternate on the conservation commission is a special municipal employee. Under town by-laws, he only has official responsibility for matters assigned to him. He may represent a resident who wants to file an application with the conservation commission as long as the matter is not assigned to him and he will not participate in it.

**(c) Inside track. Being paid by your city or town, directly or indirectly, under some second arrangement in addition to your job is prohibited, unless an exemption applies. (See Section 20)**

A municipal employee generally may not have a financial interest in a municipal contract, including a second municipal job. A municipal employee is also generally prohibited from having an indirect financial interest in a contract that the city or town has with someone else. This provision is intended to prevent municipal employees from having an "inside track" to further financial opportunities.

***Example of violation***: Legal counsel to the town housing authority becomes the acting executive director of the authority, and is paid in both positions.

***Example of violation***: A selectman buys a surplus truck from the town DPW.

***Example of violation***: A full-time secretary for the board of health wants to have a second paid job working part-time for the town library. She will violate Section 20 unless she can meet the requirements of an exemption.

***Example of violation***: A city councilor wants to work for a non-profit that receives funding under a contract with her city. Unless she can satisfy the requirements of an exemption under Section 20, she cannot take the job.

There are numerous exemptions. A municipal employee may hold multiple unpaid or elected positions. Some exemptions apply only to special municipal employees. Specific exemptions may cover serving as an unpaid volunteer in a second town position, housing- related benefits, public safety positions, certain elected positions, small towns, and other specific situations. Please call the Ethics Commission's Legal Division for advice about a specific situation.

IV. After you leave municipal employment. (See Section 18)

**(a) Forever ban. After you leave your municipal job, you may never work for anyone other than the municipality on a matter that you worked on as a municipal employee.**

If you participated in a matter as a municipal employee, you cannot ever be paid to work on that same matter for anyone other than the municipality, nor may you act for someone else, whether paid or not. The purpose of this restriction is to bar former employees from selling to private interests their familiarity with the facts of particular matters that are of continuing concern to their former municipal employer. The restriction does not prohibit former municipal employees from using the expertise acquired in government service in their subsequent private activities.

***Example of violation***: A former school department employee works for a contractor under a contract that she helped to draft and oversee for the school department.

**(b) One year cooling-off period. For one year after you leave your municipal job you may not participate in any matter over which you had official responsibility during your last two years of public service.**

Former municipal employees are barred for one year after they leave municipal employment from personally appearing before any agency of the municipality in connection with matters that were under their authority in their prior municipal positions during the two years before they left.

***Example***: An assistant town manager negotiates a three-year contract with a company. The town manager who supervised the assistant, and had official responsibility for the contract but did not participate in negotiating it, leaves her job to work for the company to which the contract was awarded. The former manager may not call or write the town in connection with the company's work on the contract for one year after leaving the town.

A former municipal employee who participated as such in general legislation on expanded gaming and related matters may not become an officer or employee of, or acquire a financial interest in, an applicant for a gaming license, or a gaming licensee for one year after his public employment ceases.

**(c) Partners. Your partners will be subject to restrictions while you serve as a municipal employee and after your municipal service ends.**

Partners of municipal employees and former municipal employees are also subject to restrictions under the conflict of interest law. If a municipal employee participated in a matter, or if he has official responsibility for a matter, then his partner may not act on behalf of anyone other than the municipality or provide services as an attorney to anyone but the city or town in relation to the matter.

***Example:*** While serving on a city's historic district commission, an architect reviewed an application to get landmark status for a building. His partners at his architecture firm may not prepare and sign plans for the owner of the building or otherwise act on the owner's behalf in relation to the application for landmark status. In addition, because the architect has official responsibility as a commissioner for every matter that comes before the commission, his partners

may not communicate with the commission or otherwise act on behalf of any client on any matter that comes before the commission during the time that the architect serves on the commission.

***Example***: A former town counsel joins a law firm as a partner. Because she litigated a lawsuit for the town, her new partners cannot represent any private clients in the lawsuit for one year after her job with the town ended.

* * * * *

This summary is not intended to be legal advice and, because it is a summary, it does not mention every provision of the conflict law that may apply in a particular situation. Our website, http://www.mass.gov/ethics, contains further information about how the law applies in many situations. You can also contact the Commission's Legal Division via our website, by telephone, or by letter. Our contact information is at the top of this document.

Version 6: Revised May 10, 2013

**Exhibit D - Acknowledgement of Receipt of Summary**

In accordance with Massachusetts General Laws, Chapter 303 of the Acts of 1975, I have been furnished a copy of the Conflict of Interest Law.

Richard A. DeFelice
**Print Name**

Newport Construction Corp.
**Department / Office / Board / Committee**

145 Temple Street
**Address**

Nashua, NH 03060
**City or Town, State & Zip**

6903-882-1700
**Phone**

r.defelice@newportconstruct.com
**Email**

Please sign below and return to the Town Clerk's Office as required by law.

X **State Ethics Commission Receipt Included**

**Signature**

03/24/17
**Date**

# Certificate of Completion

## Conflict of Interest Law

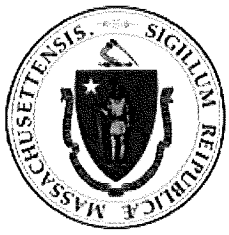
**Richard A. DeFelice**

Town of Framingham

Newport Construction Corp.

has completed the Conflict of Interest Law online training program on

3/22/2017




Print Certificate

Close Certificate Window

**PW345 - ADDENDUM ONE (1)**
**ON CALL ROAD REHABILITATION**

**This PW345 Official Addendum One Price Sheet replaces the Price Sheet in the original PW345 Bid Document and must be submitted with any PW345 bid.**

*4. PRICE SHEET - OFFICIAL*

**Instructions:**

1. **Insert Unit Bid Price**
2. **Multiply the Estimated Quantity by the Unit Price and insert the product for Total Price**
3. **Add all products in the Total Price Column and insert the sum for the Total Estimated Price for Bid Evaluation Purposes**

**In the event of a discrepancy between a Unit Bid Price and Total Price, the Unit Price shall control.**

**Bidder Name:** Newport Construction Corp

| Item No. | Estimated Quantity | Unit | Description | (1) Unit Price | (2) Total Price |
|---|---|---|---|---|---|
| 101 | 1 | A | Clearing and Grubbing | $ 1,500.00 | $ 1,500.00 |
| 102.5 | 20 | EA | Roadside Tree Protection | $ 300.00 | $ 6,000.00 |
| 120.1 | 7,300 | CY | Unclassified Excavation | $ 0.01 | $ 73.00 |
| 129 | 47,200 | SY | Hot Mix Asphalt Pavement Milling | $ 6.00 | $ 283,200.00 |
| 129.1 | 12 | DAY | Hot Mix Asphalt Pavement Milling Trench Restoration | $ 6,000.00 | $ 72,000.00 |
| 141 | 100 | CY | Class A Trench Excavation | $ 1.00 | $ 100.00 |
| 142 | 500 | CY | Class B Trench Excavation | $ 1.00 | $ 500.00 |
| 144 | 15 | CY | Class B Rock Excavation | $ 25.00 | $ 375.00 |
| 145.99 | 150 | FT | Abandon Existing Pipe (All Sizes) | $ 5.00 | $ 750.00 |
| 146 | 10 | EA | Drainage Structure Removed | $ 125.00 | $ 1,250.00 |
| 150 | 3,000 | CY | Ordinary Borrow | $ 1.00 | $ 3,000.00 |

| Item No. | Estimated Quantity | Unit | Description | (1) Unit Price | (2) Total Price |
|---|---|---|---|---|---|
| 151 | 5,800 | CY | Gravel Borrow | $ 1.00 | $ 5,800.00 |
| 153 | 12 | CY | Controlled Density Fill - Excavatable | $ 135.00 | $ 1,620.00 |
| 156 | 1,200 | TON | Crushed Stone | $ 16.00 | $ 19,200.00 |
| 170 | 10,000 | SY | Fine Grading and Compacting | $ 1.00 | $ 10,000.00 |
| 180.901 | 1 | LS | Prepare Soil and Waste Management Plan (SWMP) | $ 16,557.00 | $ 16,557.00 |
| 180.902 | 6 | EA | Testing of Soils | $ 1,200.00 | $ 7,200.00 |
| 180.903 | 750 | TON | Management, Hauling and Disposal of Impacted Soil Less Than RCS-1 (Class A-2) | $ 20.00 | $ 15,000.00 |
| 180.904 | 1,200 | TON | Management, Hauling and Disposal of Material Suitable for Daily Cover in an Unlined Landfill (Class B-1) | $ 25.00 | $ 30,000.00 |
| 180.905 | 250 | TON | Management, Hauling and Disposal of Material Suitable for Daily Cover in an Lined Landfill (Class B-2) | $ 35.00 | $ 8,750.00 |
| 180.906 | 100 | TON | Management, Hauling and Disposal of Material for Asphalt Batch Plant In-State (Class B-3) | $ 35.00 | $ 3,500.00 |
| 180.907 | 1 | LS | Prepare Asbestos Work Plan | $ 5,000.00 | $ 5,000.00 |
| 180.908 | 100 | LB | Management, Hauling and Disposal of Non-Friable Asbestos Cement Pipe | $ 10.00 | $ 1,000.00 |
| 180.909 | 100 | TON | Management, Hauling and Disposal of Friable Asbestos Cement Pipe Fragments and Soil Impacted by Friable Asbestos Cement Pipe Fragments | $ 50.00 | $ 5,000.00 |
| 183.1 | 1,000 | GAL | Treatment of Contaminated Groundwater | $ 3.00 | $ 3,000.00 |
| 183.2 | 500 | LB | Disposal of Granular Activated Carbon | $ 5.00 | $ 2,500.00 |

| Item No. | Estimated Quantity | Unit | Description | (1) Unit Price | (2) Total Price |
|---|---|---|---|---|---|
| 201.5 | 12 | EA | Catch Basin - Municipal Standard | $ 7,000.00 | $ 84,000.00 |
| 202.01 | 5 | EA | Manhole – Municipal Standard | $ 7,000.00 | $ 35,000.00 |
| 204.3 | 2 | EA | Gutter Inlet – Municipal Standard | $ 5,000.00 | $ 10,000.00 |
| 205.91 | 40 | EA | Precast Concrete Leaching Galley – (4'x4'x4') | $ 1,200.00 | $ 48,000.00 |
| 205.92 | 1 | EA | Precast Concrete Leaching Galley – (4'x4'x3') | $ 1,500.00 | $ 1,500.00 |
| 205.93 | 1 | EA | Precast Concrete Leaching Drywell – (6' Dia.) | $ 2,500.00 | $ 2,500.00 |
| 205.94 | 1 | EA | Precast Concrete Leaching Drywell – (8' Dia.) | $ 2,500.00 | $ 2,500.00 |
| 205.95 | - | Allowance | Underground Infiltration Chambers | $ 50,000 | $ 50,000.00 |
| 205.96 | - | Allowance | Water Quality Units | $ 40,000 | $ 40,000.00 |
| 220 | 250 | EA | Drainage Structure Adjusted | $ 250.00 | $ 62,500.00 |
| 220.2 | 400 | FT | Drainage Structure Rebuilt | $ 225.00 | $ 90,000.00 |
| 220.3 | 2 | EA | Drainage Structure Change in Type | $ 500.00 | $ 1,000.00 |
| 220.5 | 2 | EA | Drainage Structure Remodeled | $ 300.00 | $ 600.00 |
| 220.7 | 50 | EA | Sanitary Structure Adjusted | $ 250.00 | $ 12,500.00 |
| 220.8 | 10 | EA | Sanitary Structure Remodeled | $ 300.00 | $ 3,000.00 |
| 222.3 | 50 | EA | Frame and Grate (or Cover) Municipal Standard | $ 800.00 | $ 40,000.00 |
| 227.3 | 50 | CY | Removal of Drainage Structure Sediment | $ 250.00 | $ 12,500.00 |
| 227.31 | 600 | FT | Removal of Drainage Pipe Sediment | $ 15.00 | $ 9,000.00 |
| 238.08 | 12 | FT | 8 Inch Ductile Iron Pipe | $ 125.00 | $ 1,500.00 |
| 238.12 | 12 | FT | 12 Inch Ductile Iron Pipe | $ 125.00 | $ 1,500.00 |
| 238.16 | 12 | FT | 16 Inch Ductile Iron Pipe | $ 125.00 | $ 1,500.00 |

| Item No. | Estimated Quantity | Unit | Description | (1) Unit Price | (2) Total Price |
|---|---|---|---|---|---|
| 241.12 | 520 | FT | 12 Inch Reinforced Concrete Pipe | $ 125.00 | $ 65,000.00 |
| 241.18 | 16 | FT | 18 Inch Reinforced Concrete Pipe | $ 125.00 | $ 2,000.00 |
| 241.24 | 16 | FT | 24 Inch Reinforced Concrete Pipe | $ 125.00 | $ 2,000.00 |
| 242.12 | 16 | EA | 12 Inch Reinforced Concrete Pipe Flared End | $ 500.00 | $ 8,000.00 |
| 242.18 | 2 | EA | 18 Inch Reinforced Concrete Pipe Flared End | $ 500.00 | $ 1,000.00 |
| 242.24 | 2 | EA | 24 Inch Reinforced Concrete Pipe Flared End | $ 600.00 | $ 1,200.00 |
| 244.12 | 16 | FT | 12 Inch Reinforced Concrete Pipe Class V | $ 125.00 | $ 2,000.00 |
| 250.04 | 100 | FT | 4 Inch Polyvinyl Chloride Pipe | $ 100.00 | $ 10,000.00 |
| 250.06 | 100 | FT | 6 Inch Polyvinyl Chloride Pipe | $ 100.00 | $ 10,000.00 |
| 252.12 | 100 | FT | 12 Inch Corrugate Plastic (Polyethylene) Pipe | $ 125.00 | $ 12,500.00 |
| 252.18 | 100 | FT | 18 Inch Corrugate Plastic (Polyethylene) Pipe | $ 75.00 | $ 7,500.00 |
| 252.24 | 100 | FT | 24 Inch Corrugate Plastic (Polyethylene) Pipe | $ 75.00 | $ 7,500.00 |
| 269.08 | 500 | FT | 8 Inch Slot-Perforated Corrugated Plastic Pipe (Subdrain) | $ 50.00 | $ 25,000.00 |
| 357.9 | 12 | EA | Gate Box, Service Box, Curb Stop Installation Only | $ 250.00 | $ 3,000.00 |
| 358 | 100 | EA | Gate Box Adjusted | $ 200.00 | $ 20,000.00 |
| 381.3 | 20 | EA | Service Box Adjusted | $ 200.00 | $ 4,000.00 |
| 384.2 | 20 | EA | Curb Stop Adjusted | $ 200.00 | $ 4,000.00 |
| 403 | 11,400 | SY | Reclaimed Pavement for Base Course | $ 2.00 | $ 22,800.00 |
| 403.1 | 10 | TON | Crushed Stone for Blending | $ 20.00 | $ 200.00 |
| 431 | 12 | SY | High-Early-Strength Concrete for Base Course | $ 40.00 | $ 480.00 |

| Item No. | Estimated Quantity | Unit | Description | (1) Unit Price | (2) Total Price |
|---|---|---|---|---|---|
| 440 | 500 | LB | Calcium Chloride for Roadway Dust Control | $ 0.10 | $ 50.00 |
| 443 | 100 | MGL | Water for Roadway Dust Control | $ 0.10 | $ 10.00 |
| 452 | 50 | GAL | Asphalt Emulsion for Tack Coat | $ 15.00 | $ 750.00 |
| 453 | 200 | FT | HMA Joint Sealant | $ 1.00 | $ 200.00 |
| 455.23 | 7,200 | TON | Superpave Surface Course – 12.5 (SSC-12.5) | $ 90.00 | $ 648,000.00 |
| 455.31 | 1,900 | TON | Superpave Intermediate Course – 12.5 (SIC-12.5) | $ 90.00 | $ 171,000.00 |
| 455.42 | 1,200 | TON | Superpave Base Course – 37.5 (SBC-37.5) | $ 70.00 | $ 84,000.00 |
| 460 | 1,000 | TON | HMA - MassDOT | $ 100.00 | $ 100,000.00 |
| 460.88 | N/A | TON | Liquid Asphalt Adjustment | N/A Leave Blank | N/A Leave Blank |
| 470 | 20 | TON | Hot Mix Asphalt Berm | $ 200.00 | $ 4,000.00 |
| 472 | 250 | TON | Hot Mix Asphalt for Miscellaneous Work | $ 150.00 | $ 37,500.00 |
| 482.3 | 20,000 | FT | Sawing Asphalt Pavement | $ 0.01 | $ 200.00 |
| 504 | 15,000 | FT | Granite Curb Type VA-4 - Straight | $ 15.00 | $ 225,000.00 |
| 504.1 | 1,880 | FT | Granite Curb Type VA-4 - Curved | $ 17.00 | $ 31,960.00 |
| 504.2 | 10 | EA | Granite Curb Type VA-4 – Splayed End | $ 300.00 | $ 3,000.00 |
| 509 | 400 | FT | Granite Curb Transition for Wheelchair Ramps - Straight | $ 55.00 | $ 22,000.00 |
| 509.1 | 300 | FT | Granite Curb Transition for Wheelchair Ramps - Curved | $ 55.00 | $ 16,500.00 |
| 511.1 | 800 | FT | Granite Edging Type SB - Straight | $ 12.00 | $ 9,600.00 |
| 512.1 | 100 | FT | Granite Edging Type SB (Radius 10 Feet or Less) | $ 15.00 | $ 1,500.00 |
| 514 | 50 | EA | Granite Curb Inlet - Straight | $ 250.00 | $ 12,500.00 |

| Item No. | Estimated Quantity | Unit | Description | (1) Unit Price | (2) Total Price |
|---|---|---|---|---|---|
| 515 | 50 | EA | Granite Curb Inlet - Curved | $ 250.00 | $ 12,500.00 |
| 580 | 12,000 | FT | Curb Removed and Reset | $ 18.00 | $ 216,000.00 |
| 581 | 12 | EA | Curb Inlet Removed and Reset | $ 75.00 | $ 900.00 |
| 582 | 25 | EA | Curb Corner Removed and Reset | $ 50.00 | $ 1,250.00 |
| 583 | 2,000 | FT | Edging Removed and Reset | $ 8.00 | $ 16,000.00 |
| 590 | 100 | FT | Curb Removed and Stacked | $ 30.00 | $ 3,000.00 |
| 622.1 | 200 | FT | Single W Beam Highway Guard (Single Faced/Wood Posts) | $ 20.00 | $ 4,000.00 |
| 622.3 | 100 | FT | Single W Beam Highway Guard - Curved (Single Faced/Wood Posts) | $ 21.00 | $ 2,100.00 |
| 622.4 | 2 | EA | Single W Beam Highway Guard Buried End (Single Faced/Wood Posts) | $ 500.00 | $ 1,000.00 |
| 627.1 | 2 | EA | Steel W Beam Terminal Section (Single Faced) | $ 500.00 | $ 1,000.00 |
| 627.8 | 2 | EA | Steel Beam Highway Guard (Tangent End Treatment) | $ 750.00 | $ 1,500.00 |
| 644.048 | 100 | FT | 48 Inch Chain Link Fence (STW) (Line Post Option) | $ 26.00 | $ 2,600.00 |
| 644.072 | 100 | FT | 72 Inch Chain Link Fence (STW) (Line Post Option) | $ 36.00 | $ 3,600.00 |
| 645.048 | 950 | FT | 48 Inch Chain Link Fence (Pipe top Rail) (Line Post Option) | $ 15.00 | $ 14,250.00 |
| 645.072 | 100 | FT | 72 Inch Chain Link Fence (Pipe top Rail) (Line Post Option) | $ 22.00 | $ 2,200.00 |
| 657 | 200 | FT | Temporary Fence | $ 5.00 | $ 1,000.00 |
| 670 | 100 | FT | Fence Removed and Reset | $ 10.00 | $ 1,000.00 |
| 685 | 75 | CY | Stone Masonry Wall in Cement Mortar | $ 174.00 | $ 13,050.00 |

| Item No. | Estimated Quantity | Unit | Description | (1) Unit Price | (2) Total Price |
|---|---|---|---|---|---|
| 685.991 | 75 | SY | Modular Block Retaining Wall | $ 70.00 | $ 5,250.00 |
| 685.992 | 260 | SY | Modular Block Retaining Wall with Geogrid | $ 50.00 | $ 13,000.00 |
| 690.1 | 75 | CY | Stone Masonry Wall Removed and Rebuilt Dry | $ 175.00 | $ 13,125.00 |
| 697 | 2,000 | FT | Sedimentation Fence | $ 2.00 | $ 4,000.00 |
| 697.1 | 50 | EA | Silt Sack | $ 200.00 | $ 10,000.00 |
| 697.9 | 2,000 | FT | Straw Wattles | $ 2.00 | $ 4,000.00 |
| 701 | 9,600 | SY | Cement Concrete Sidewalk | $ 75.00 | $ 720,000.00 |
| 701.1 | 1,200 | SY | Cement Concrete Sidewalk At Driveway | $ 80.00 | $ 96,000.00 |
| 701.2 | 900 | SY | Cement Concrete Wheelchair Ramp | $ 150.00 | $ 135,000.00 |
| 702 | 650 | TON | Hot Mix Asphalt Walk Surface | $ 200.00 | $ 130,000.00 |
| 703 | 550 | TON | Hot Mix Asphalt Driveway | $ 200.00 | $ 110,000.00 |
| 706 | 20 | SY | Brick Walk | $ 100.00 | $ 2,000.00 |
| 706.1 | 20 | SY | Brick Walk Removed and Relaid | $ 100.00 | $ 2,000.00 |
| 711 | 4 | EA | Bound Removed and Reset | $ 200.00 | $ 800.00 |
| 751.9 | 200 | CY | Loam Borrow and Sced | $ 20.00 | $ 4,000.00 |
| 751.91 | 40 | CY | Loam Borrow and Seed Placement Only | $ 50.00 | $ 2,000.00 |
| 804.42 | 2,000 | FT | 4 Inch Electrical Conduit Type NM – Plastic –(UL) - Double | $ 50.00 | $ 100,000.00 |
| 811.991 | 10 | EA | Communications Pull Box 36 x 36 Inches | $ 3,000.00 | $ 30,000.00 |
| 819.831 | 5,000 | FT | Wire Loop Installed in Roadway | $ 13.00 | $ 65,000.00 |
| 824.01 | 4 | EA | Rectangular Rapid Flashing Beacon | $ 20,000.00 | $ 80,000.00 |

| Item No. | Estimated Quantity | Unit | Description | (1) Unit Price | (2) Total Price |
|---|---|---|---|---|---|
| 832 | 480 | SF | Warning – Regulatory and Route Markers Alum. Panel (Type A) | $ 25.00 | $ 12,000.00 |
| 847.1 | 30 | EA | Sign Support with One Breakaway Post - Steel | $ 125.00 | $ 3,750.00 |
| 850.41 | 1,200 | HR | Roadway Flagger | $ 1.00 | $ 1,200.00 |
| 852 | 480 | SF | Safety Signing for Construction Traffic | $ 15.00 | $ 7,200.00 |
| 854.1 | 500 | FT | Pavement Marking Removal | $ 5.00 | $ 2,500.00 |
| 854.91 | 50,000 | FT | Temporary Pavement Markings – 4 In. (Painted) | $ 0.65 | $ 32,500.00 |
| 860.91 | 2,000 | FT | 4 Inch Reflectorized White Line (Epoxy Resin) | $ 1.50 | $ 3,000.00 |
| 860.92 | 17,000 | FT | 6 Inch Reflectorized White Line (Epoxy Resin) | $ 2.00 | $ 34,000.00 |
| 860.93 | 2,000 | FT | 12 Inch Reflectorized White Line (Epoxy Resin) | $ 2.00 | $ 4,000.00 |
| 861.91 | 1,000 | FT | 4 Inch Reflectorized Yellow Line (Epoxy Resin) | $ 1.50 | $ 1,500.00 |
| 861.92 | 26,000 | FT | 6 Inch Reflectorized Yellow Line (Epoxy Resin) | $ 2.00 | $ 52,000.00 |
| 861.93 | 2,000 | FT | 12 Inch Reflectorized Yellow Line (Epoxy Resin) | $ 3.00 | $ 6,000.00 |
| 861.94 | 100 | SF | Pavement Arrows and Legends (Epoxy Resin) | $ 50.00 | $ 5,000.00 |
| 864.21 | 75 | EA | Raised Pavement Marker One-Way White | $ 10.00 | $ 750.00 |
| 864.25 | 75 | EA | Raised Pavement Marker Two-Way Yellow/Yellow | $ 20.00 | $ 1,500.00 |
| 864.31 | 75 | EA | Slotted Pavement Marker One-Way White | $ 25.00 | $ 1,875.00 |
| 864.35 | 75 | EA | Slotted Pavement Marker Two-Way Yellow/Yellow | $ 25.00 | $ 1,875.00 |
| 903 | 48 | CY | 3000 PSI 1.5" 470 Cement Concrete | $ 200.00 | $ 9,600.00 |
| 903.9 | 60 | CY | Stamped and Colored Cement Concrete | $ 400.00 | $ 24,000.00 |
| 910 | 200 | LB | Steel Reinforcement for Structures | $ 5.00 | $ 1,000.00 |

| Item No. | Estimated Quantity | Unit | Description | (1) Unit Price | (2) Total Price |
|---|---|---|---|---|---|
| 999.1 | 1,200 | HR | Uniformed Police Details | $ 46.00 | $ 55,200.00 |
| 999.2 | - | - | Price Adjustment for Portland Cement Concrete Mixes | N/A Leave Blank | N/A Leave Blank |
| 999.3 | - | - | Price Adjustment for Diesel Fuel and Gasoline | N/A Leave Blank | N/A Leave Blank |
| 999.4 | - | - | Price Adjustment for Structural Steel and Reinforcing Steel | N/A Leave Blank | N/A Leave Blank |
| 999.5 | - | Allowance | Emergency Repair Work | $50,000 | $ 50,000.00 |
| 999.6 | - | Allowance | Equipment and Operator | $50,000 | $ 50,000.00 |

| (3) Total Estimated Contract Price for Bid Evaluation Purposes : | $ 4,771,500.00 |
|---|---|

Four million Seven hundred Seventy one thousand five hundred dollars and no Cents

Total Estimated Contract Price for Bid Evaluation Purposes in WORDS

**Name of Bidder:** Newport Construction Corp.

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION PREQUALIFICATION IS REQUIRED TO BID ON THIS PROJECT. THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION (MASSDOT) HAS PROVIDED A LIST TO THE FRAMINGHAM PUBLIC WORKS DEPARTMENT OF APPROVED ELIGIBLE BIDDERS FOR THIS PROJECT. ONLY THOSE CONTRACTORS ON THIS LIST WILL RECEIVE OFFICIAL BID DOCUMENTS.

Town of Framingham, Massachusetts

Date 03/09/17

To: Town of Framingham, Framingham, MA

I have read the Affirmative Action Requirements and Equal Employment Opportunity as adopted by the Town of Framingham on December 8, 1971 and approved by the Massachusetts Attorney General on March 14, 1972 and agree to affirmatively implement all practices necessary to comply with said requirements.

A copy of a portion of the Town By-law is attached as part of the bid specifications.

Signed _____ Name

Richard A. DeFelice, President
Title

Company Newport Construction Corp.

Contract No.: PW #345

For: On Call Roadway Rehabilitation

## 3. *CERTIFICATE OF CORPORATE AUTHORITY*

AT A DULY AUTHORIZED MEETING OF THE BOARD OF DIRECTORS OF THE Newport Construction Corp.
(name of corporation)

held on 03/09/17 Directors were present or waived notice, it was voted that Richard A. DeFelice,
(date)

President of this company be and hereby is authorized to execute contracts and bonds
(name and title)

in the name and behalf of said company, and affix its Corporate Seal thereto, and such execution of any contract or bond of obligation in this company's name on its behalf of such Richard A. DeFelice
(OFFICER)

under seal of the company shall be valid and binding upon this company.

A TRUE COPY,

ATTEST: _____

Place of Business:

145 Temple Street

Nashua, NH 03060

I hereby certify that I am the Secretary of the Newport Construction Corp.
(Title) (Name of Corporation)

that Richard A. DeFelice is the duly elected President of said
(Name of Officer) (Title)

company, and the above vote has not been amended or rescinded and remains in full force and effect as of the date of this contract.

Signature: _____

Name/Title: Richard A. DeFelice, Secretary

Date: 03/09/17

(Corporate Seal)

COMMONWEALTH OF MASSACHUSETTS, SS. March 9, 20 17

Then personally appeared the above named Richard A. DeFelice and acknowledged the foregoing instrument to be his/her free act and deed before me.

NOTARY PUBLIC _____

My commission expires: 08/05/20

JENNIFER A. ALLEN
STATE OF NEW HAMPSHIRE
MY COMMISSION EXPIRES AUGUST 5, 2020
NOTARY PUBLIC

NEWPORT
CONSTRUCTION CORPORATION

**BOARD OF DIRECTORS VOTE**

At a meeting of the Board of Directors of NEWPORT CONSTRUCTION CORPORATION held on February 1, 2017 at which all the Directors were present or waived notice, it was VOTED, that Richard A. DeFelice, President of this company; and that he is hereby authorized to execute contracts in the name and on behalf of said company, and affix its corporate seal thereto; and such execution of any contract or obligation in this company's name on its behalf by such Richard A. DeFelice, under seal of this company shall be valid and binding upon this company.

A True Copy Attest:
Clerk:_____
Signature

Richard A. DeFelice.

145 Temple Street, Nashua, NH 03060.

February 1, 2017.
Date

I, Richard A. DeFelice, hereby certify that I am the Clerk of NEWPORT CONSTRUCTION CORPORATION and that Richard A. DeFelice is the duly elected President of said company, and that the above vote has not been amended or rescinded and remains in full force and as of this date.

_____
Signature

(Corporate Seal)

145 TEMPLE STREET NASHUA NH 03060 603.882.1700 PH 603.882.2784 FAX
www.NEWPORTCORPORATION.com

# The Commonwealth of Massachusetts

## Secretary of the Commonwealth

State House, Boston, Massachusetts 02133

William Francis Galvin
Secretary of the
Commonwealth

Date: January 20, 2017

To Whom It May Concern :

I hereby certify that according to the records of this office,

**NEWPORT CONSTRUCTION CORPORATION**

a corporation organized under the laws of

**NEW HAMPSHIRE**

on **May 03, 2000** was qualified to do business in this Commonwealth on

**May 12, 2000** under the provisions of the General Laws, and I further certify that said corporation is still qualified to do business in this Commonwealth.

I also certify that said corporation is not delinquent in the filing of any annual reports required to date.

In testimony of which,
I have hereunto affixed the
Great Seal of the Commonwealth
on the date first above written.

William Francis Galvin

Secretary of the Commonwealth

Certificate Number: 17010345160

Verify this Certificate at: http://corp.sec.state.ma.us/CorpWeb/Certificates/Verify.aspx

Processed by:

# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY): 3/23/2017

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

**PRODUCER**
Alliant Insurance Services, Inc.
40 Stanford Drive, 2nd Floor
Farmington CT 06032

CONTACT NAME: Catherine Martin
PHONE (A/C, No, Ext): 860-269-2181 FAX (A/C, No): 860-284-0003
E-MAIL ADDRESS: cmartin@alliant.com

| INSURER(S) AFFORDING COVERAGE | NAIC # |
|---|---|
| INSURER A : Catlin Specialty Insurance Co | 10092 |
| INSURER B : Hartford Fire Insurance Company | 19682 |
| INSURER C : Sentinel Insurance Company Ltd | 11000 |
| INSURER D : American Guarantee and Liability In | 26247 |
| INSURER E : Twin City Fire Insurance Company | 29459 |
| INSURER F : | |

**INSURED** NEWPCON-01
Newport Construction Corp.
145 Temple Street
Nashua, NH 03060

**COVERAGES** **CERTIFICATE NUMBER:** 1344698367 **REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

| INSR LTR | TYPE OF INSURANCE | ADDL INSD | SUBR WVD | POLICY NUMBER | POLICY EFF (MM/DD/YYYY) | POLICY EXP (MM/DD/YYYY) | LIMITS | |
|---|---|---|---|---|---|---|---|---|
| B | X COMMERCIAL GENERAL LIABILITY | Y | Y | 02 UEA QT9608 | 6/30/2016 | 6/30/2017 | EACH OCCURRENCE | $1,000,000 |
| | CLAIMS-MADE X OCCUR | | | | | | DAMAGE TO RENTED PREMISES (Ea occurrence) | $300,000 |
| | | | | | | | MED EXP (Any one person) | $5,000 |
| | | | | | | | PERSONAL & ADV INJURY | $1,000,000 |
| | GEN'L AGGREGATE LIMIT APPLIES PER: | | | | | | GENERAL AGGREGATE | $2,000,000 |
| | POLICY X PRO-JECT LOC | | | | | | PRODUCTS - COMP/OP AGG | $2,000,000 |
| | OTHER: | | | | | | | $ |
| C | AUTOMOBILE LIABILITY | Y | Y | 02 UEA QT9609 | 6/30/2016 | 6/30/2017 | COMBINED SINGLE LIMIT (Ea accident) | $1,000,000 |
| | X ANY AUTO | | | | | | BODILY INJURY (Per person) | $ |
| | ALL OWNED AUTOS / SCHEDULED AUTOS | | | | | | BODILY INJURY (Per accident) | $ |
| | X HIRED AUTOS / X NON-OWNED AUTOS | | | | | | PROPERTY DAMAGE (Per accident) | $ |
| | | | | | | | | $ |
| D | UMBRELLA LIAB X OCCUR | Y | Y | AUC 0178999-01 | 6/30/2016 | 6/30/2017 | EACH OCCURRENCE | $10,000,000 |
| | EXCESS LIAB CLAIMS-MADE | | | | | | AGGREGATE | $10,000,000 |
| | DED RETENTION $ | | | | | | | $ |
| E | WORKERS COMPENSATION AND EMPLOYERS' LIABILITY | | Y | 02 WEA QT9610 | 6/30/2016 | 6/30/2017 | X PER STATUTE OTH-ER | |
| | ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? Y/N N (Mandatory in NH) | N/A | | | | | E.L. EACH ACCIDENT | $1,000,000 |
| | If yes, describe under DESCRIPTION OF OPERATIONS below | | | | | | E.L. DISEASE - EA EMPLOYEE | $1,000,000 |
| | | | | | | | E.L. DISEASE - POLICY LIMIT | $1,000,000 |
| A | Pollution Liability | Y | Y | CPL-902230-0617 | 6/30/2016 | 6/30/2017 | Occurrence<br>Aggregate<br>SIR | $1,000,000<br>$3,000,000<br>$10,000 |

**DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES** (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Re: Newport Job #C17-004, Contract #PW-345, Framingham, MA – On Call Road Rehabilitation.

Town of Framingham is included as Additional Insured as required by written contract and executed prior to a loss, but limited to the operations of the Insured under said contract, with respect to the Automobile, General Liability and Um Pollution Liability policies.

**CERTIFICATE HOLDER**

Town of Framingham
Department of Public Works
c/o Contract Administrator
110 Western Avenue
Framingham, MA 01702

**CANCELLATION**

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

John J. Gambir

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# Schedule of Underlying Insurance

ZURICH®

| Policy No. | Eff. Date of Pol. | Exp. Date of Pol. | Eff. Date of End. | Producer | Add'l Prem. | Return Prem. |
|---|---|---|---|---|---|---|
| AUC 0178999-01 | 06/30/2016 | 06/30/2017 | 06/30/2016 | 47731000 | ---------- | ---------- |

**Named Insured and Mailing Address:**

NEWPORT CONSTRUCTION CORP
145 TEMPLE ST
NASHUA, NH 03060

**Producer:**

ALLIANT INSURANCE SERVICES, INC.
131 OLIVER ST FL 4
BOSTON, MA 02110-2706

| Company, Policy No. and Term | Coverage | Applicable Limits | |
|---|---|---|---|
| A. Company: Hartford Fire Insurance Company | Commercial General Liability | $1,000,000 | Premises - Each Occurrence |
| Policy No: 02 UEA QT9608 | | $1,000,000 | Products / Completed Ops - Each Occurrence |
| Term: 06/30/2016 to 06/30/2017 | | $2,000,000 | Products / Completed Operations Aggregate |
| | | $2,000,000 | General Aggregate |
| | | | Per Project |
| | | | Term Aggregate |
| | | | Unlimited |
| | | $1,000,000 | Personal Injury/ Advertising Injury |
| | Including Employee Benefits | $1,000,000 | Employee Benefits - Each Claim |
| | | $2,000,000 | Employee Benefits - General Aggregate |

| Company, Policy No. and Term | Coverage | Applicable Limits | |
|---|---|---|---|
| B. Company: Sentinel Insurance Company | Commercial Auto Liability | $1,000,000 | Combined Single Limit |
| Policy No: 02 UEA QT9609 | | | |
| Term: 06/30/2016 to 06/30/2017 | | | |

| Company, Policy No. and Term | Coverage | Applicable Limits |
|---|---|---|

| | | | |
|---|---|---|---|
| C. Company: Twin City Fire Insurance Company | Employers Liability | $1,000,000 | Bodily Injury By Accident - Each Accident |
| Policy No: 02 WEA QT9610 | | $1,000,000 | Bodily Injury By Disease - Each Employee |
| Term: 06/30/2016 to 06/30/2017 | | $1,000,000 | Bodily Injury By Disease - Policy Limit |

# FY2019 Requested: Deferred to FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | FPS/B&G/2019/C | **Budget Year:** | 2019 |
| **Project Title:** | Asbestos Abatement / Replace Deteriorated Floor Tiles – Pipe Insulation & Main Corridor Areas @ Pott | **Scenario:** | Main 2019 |
| **Asset Type:** | | **Budget Status:** | Department Request |
| **Department:** | C3-971 - Building & Grounds Department | **Regions:** | |
| **Project Type:** | School Building Structure | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | Jul 2, 2018 | **Project Partner:** | |
| **Est. Completion Date:** | Aug 24, 2018 | | |

## Description:

The Potter Road School is one of several older schools that contain asbestos that we have identified. Ceilings, floors and pipe coverings above the ceilings are the next area of priority that should have asbestos containing materials removed.

## Comments:

In an ongoing effort to address, the Asbestos Hazard Emergency Response Action (AHERA) and comply with D.E.P. (Department of Environmental Protection) requirements, the District performs six-month inspections for all suspected asbestos containing materials. Three year reports are filed through a contracted Industrial Hygienist firm in order for the District to be in full compliance with the D.E.P. AHERA guidelines for Public Schools.

## Justification:

Because all asbestos must be removed at some point from all schools, even if the building is to be demolished, take a pro-active approach and address large common areas of floor tile in corridors etc. that show signs of wear or curled edges. Even though there is no eminent danger of the material becoming airborne or “friable” we want to remove it before it becomes dangerous.

Please note that the majority of ACM removal and replacement listed must be completed during the months of July and August when students are not in the schools. Requested amounts reflect the amount of construction and installation work that can be completed in this short time frame.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 460,000 | 0 | 460,000 |
| | **460,000** | **0** | **460,000** |

**12. Asbestos Abatement / Replace Deteriorated Floor Tiles – Pipe Insulation & Main Corridor Areas @ Potter Road**

**FY19:**

In an ongoing effort to address, the Asbestos Hazard Emergency Response Action (AHERA) and comply with D.E.P. (Department of Environmental Protection) requirements, the District performs six-month inspections for all suspected asbestos containing materials. Three year reports are filed through a contracted Industrial Hygienist firm in order for the District to be in full compliance with the D.E.P. AHERA guidelines for Public Schools.

Any item containing asbestos must be monitored and if found to be in poor condition or in a state where asbestos particulates may become airborne then it must be repaired or removed.

Because all asbestos must be removed at some point from all schools, even if the building is to be demolished, take a pro-active approach and address large common areas of floor tile in corridors etc. that show signs of wear or curled edges. Even though there is no eminent danger of the material becoming airborne or "friable" we want to remove it before it becomes dangerous.

This latest request is a representation of planning ahead and securing the removed material before it becomes dangerous.

The Potter Road School is one of several older schools that contain asbestos that we have identified. Ceilings, floors and pipe coverings above the ceilings are the next area of priority that should have asbestos containing materials removed.

**$460,000**

***** Please note that this abatement work must be completed during the months of July through August when students are not in the schools. Requested amount reflects the amount of abatement construction and installation work that can be completed in this short time frame.**

UEC universal environmental consultants

September 11, 2017

Mr. Matt Torti
Framingham Public Schools
31 Flagg Drive
Framingham, MA 01702

Reference: Asbestos Abatement Project
Potter Road School

Dear Mr. Torti:

Thank you for providing Universal Environmental Consultants (UEC) the opportunity to serve your environmental needs.

The following are estimated costs for the asbestos abatement and replacement project at the Potter Road School. The estimated costs below are for accessible asbestos containing materials (ACM) only and do not include ACM that might be found hidden in walls or above plaster ceilings.

| **Location** | **Abatement Cost** | **Replacement Cost** |
|---|---|---|
| Vinyl Asbestos Tiles/Carpets = 34,000 SF | $136,000.00 | $170,000.00 |
| Floor Prep/Moisture System = 34,000 SF | | $ 48,000.00 |
| Floor Waxing = 34,000 SF | | $ 12,000.00 |
| Hard Joint Insulation = 1,500 LF | $ 30,000.00 | $ 30,000.00 |
| Containments and Cleaning | $ 9,500.00 | |

Total Cost: $ 435,500.00

Estimated Fee for Design, Monitoring and Air Sampling: $ 24,500.00

**Grand Total: $ 460,000.00**

Please do not hesitate to call our office if you have any questions.

Very truly yours,

Universal Environmental Consultants

_____
Ammar M. Dieb
President

UEC:\Various Info\Potter Road School Cost Estimates 2017.DOC

# FY2019 Requested: Deferred beyond FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | FIRE/Fire/2019/C | **Budget Year:** | 2019 |
| **Project Title:** | Safety/Training Officer Response Vehicle - Fire Apparatus Asset Replacement | **Scenario:** | Main 2019 |
| **Asset Type:** | FIRE TRUCKS | **Budget Status:** | Department Request |
| **Department:** | 38-220 - Fire | **Regions:** | |
| **Project Type:** | Public Safety Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2018 | **Manager:** | |
| **Start Date:** | Jul 2, 2018 | **Project Partner:** | |
| **Est. Completion Date:** | Feb 28, 2019 | | |

**Description:**

Replace Safety/Training Officer pick-up

**Comments:**

**Justification:**

The national fire response standards of the National Fire Protection Association require that the Incident Commander establish a Safety Officer for all significant incidents. The FFD policies dictate that the Deputy Chief in charge of the Training Division respond to such incidents to perform the duties of Safety Officer. The response truck used for these purposes is a 2006 Ford F250 pickup with high mileage and accelerating maintenance costs. This Project would replace the current Safety/Training Officer truck and repurpose the current truck within the Fire Department fleet to replace a fleet vehicle with the highest mileage/hours. The Safety/Training Officer pick-up is also used to get safety equipment to significant incidents and transport training equipment used at remote drill locations. The cost of this project includes the cost of a new radio in addition to the vehicle, and the emergency lighting, cargo protection cap and department identification decal package.

**Description:**

**Comments:**

**Project Forecast**

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 53,516 | 0 | 53,516 |
| | **53,516** | **0** | **53,516** |

# QUOTE

**Framingham, City of**

Car - 2 (F350)

| | | | |
|---|---|---|---|
| Contact Name: | Ken Cassidy, Mechanic | Date: | November 22, 2017 |
| Company/Dept: | Fire Dept. | Valid Through: | 60 days* |
| Street Address: | 10 Loring Drive | Customer #: | 12020 |
| City, State, Zip: | Framingham, MA 01702 | Contract: | GBPC - Various |
| Phone: | 508.532.5945 (desk) | Sales Rep: | Shawn Daoust |
| E-Mail: | ksc@framinghamma.gov | | |

| LINE REFERENCE | LINE DESCRIPTION | UNIT PRICE | QTY. | EXTENDED PRICE |
|---|---|---|---|---|
| X2B / 148" | Ford F250 Super Cab Pickup - 4WD - 6.75' bed | $ 26,700.00 | 1 | $ 26,700.00 |
| 600A | XL Trim (Base) | | 1 | $ - |
| ESTIMATE | Exterior Color - Vermillion Red Special Order Paint "F1" | $ 700.00 | 1 | $ 700.00 |
| 996 / 44S | 6.2L V8 Gasoline Engine with Auto Transmission | | 1 | $ - |
| 1S | 40/20/40 Split CLOTH Bench Seat & HD Vinyl Flooring | $ 305.55 | 1 | $ 305.55 |
| | Factory Trailer Tow Hitch with 4 & 7 way trailer plugs | | 1 | $ - |
| | Spare Tire, Wheel & Jack | | 1 | $ - |
| 17S | STX Appearance Package - Cruise, 18" Alloys, Chrome, CD Player | $ 1,639.30 | 1 | $ 1,639.30 |
| 91M | SYNC (factory bluetooth) | $ 354.05 | 1 | $ 354.05 |
| TDX | All Terrain Tires | $ 160.05 | 1 | $ 160.05 |
| 90L (Ext. cab) | Power Equipment Group (Windows, Mirror Glass, Locks) | $ 887.55 | 1 | $ 887.55 |
| 473 | Snow Plow Prep. Package | $ 179.45 | 1 | $ 179.45 |
| | Electronic Shift 4WD | | 1 | $ - |
| 18B | Factory Cab Steps | $ 431.65 | 1 | $ 431.65 |
| 76S | Remote Start System | $ 242.50 | 1 | $ 242.50 |
| 61N | Front & Rear Wheel Well Liners | $ 315.25 | 1 | $ 315.25 |
| 61S / 62S | Front & Rear Mud Flaps | $ 126.10 | 1 | $ 126.10 |
| | Factory Rear View Camera (will display in mirror) | | 1 | $ - |
| X3E | Limited Slip Axle | $ 378.30 | 1 | $ 378.30 |
| 52B | Factory Electronic Trailer Brake Controller | $ 261.90 | 1 | $ 261.90 |
| 85S | Factory Spray in Bed Liner | $ 523.80 | 1 | $ 523.80 |
| | **GBPC Ford Contract Total :** | | | **$ 33,205.45** |
| | | | | |
| | MHQ Graphics Package C | $ 695.00 | 1 | $ 695.00 |
| | MHQ Graphics Package A (use for Chevron) | $ 395.00 | 1 | $ 395.00 |
| | Whelen M4RC LED Warning Lights (1 pair) - front PB | $ 380.00 | 1 | $ 380.00 |
| % off MSRP | Whelen M4BKT1 L Bracket for front PB lights | $ 13.00 | 2 | $ 26.00 |
| | Whelen M4RC LED Warning Lights (1 per side) PB sides | $ 380.00 | 1 | $ 380.00 |
| | Setina PB400 Aluminum PushBumper | $ 420.00 | 1 | $ 420.00 |
| | Wig-Wag Headlight Flasher | $ 75.00 | 1 | $ 75.00 |
| | Whelen M7RC LED Warning Lights (1 / side) in fender emblem | $ 435.00 | 1 | $ 435.00 |
| | Whelen Liberty II DUO Lightbar w/ CenCom Siren/Switch | $ 2,935.00 | 1 | $ 2,935.00 |
| | Whelen LED GTT Emitter/Opticom (built into lightbar) | $ 1,375.00 | 1 | $ 1,375.00 |
| w/r | Whelen Vertex LED Hide-a-ways (2 pair) - tail | $ 445.00 | 1 | $ 445.00 |
| 1 B, 1 R | Whelen M4*C LED Warning Lights (1 pair) rear cap near tail lights | $ 380.00 | 1 | $ 380.00 |
| 1 B, 1 R | Whelen ION Series LED Warning Lights (1 pair) rear cap header | $ 365.00 | 1 | $ 365.00 |
| on PB | Whelen SA315P Composite Siren Speaker | $ 200.00 | 1 | $ 200.00 |

| | | | | |
|---|---|---|---|---|
| | Havis C2410 Communications Console w/Trackmount | $ 450.00 | 1 | $ 450.00 |
| | Havis Dual Internal Cup Holder(s) for Console | $ 45.00 | 2 | $ 90.00 |
| | Havis Side Mount Arm Rest(2) - CARM102 | $ 65.00 | 2 | $ 130.00 |
| % off MSRP | Havis CAP0995 Open Accessory Pocket | $ 78.46 | 1 | $ 78.46 |
| | Magnetic Mic. Clip(s) | $ 41.00 | 3 | $ 123.00 |
| | Central Wiring System with 12v Timer Built In | $ 815.00 | 1 | $ 815.00 |
| | LED Rope Lighting inside Cap | $ 540.00 | 1 | $ 540.00 |
| | DCC Aluminum Cap with Single Lift Up Hatch (no glass) | $ 2,595.00 | 1 | $ 2,595.00 |
| | Aluminum Toolbox(es) | $ 795.00 | 1 | $ 795.00 |
| | BedSlide Sliding Storage Platform (1,000 # Minimum) | $ 1,695.00 | 1 | $ 1,695.00 |
| % off MSRP | Aftermarket Back up Camera to integrate into OEM Camera System | $ 319.87 | 1 | $ 319.87 |
| | Install Customer Supplied 2-way Radio(s) | $ 195.00 | 2 | $ 390.00 |
| | | | | $ - |
| | **GBPC Aftermarket Equipment Contract Total :** | | | **$ 16,527.33** |
| | | | | |
| | | | **TOTAL:** | **$ 49,732.78** |
| | | | **Trade :** | $ - |
| | | | **Net Investment :** | **$ 49,732.78** |

## TERMS AND CONDITIONS

*This quote is valid for 60 days from the date of quote. Any purchase orders or approved quotes received outside of the 60 day quote period may be subject to price adjustments. By signing this quote, the customer is agreeing to pay, in full, for all items listed above. Any requests for changes, modifications, replacements, removals or additional items may be subject to additional fees and/or adjusted delivery dates.

M.G.L c. 30B applies to the procurement of all commodities quoted. Contract items have been collectively purchased pursuant to M.G.L c 30B sec 1c and M.G.L c.7 sec 22B. The government body is responsible to determine the applicibility of M.G.L. c30B to off contract items, but not limited to, off contract items that have already been properly procured under M.G.L. c30B sec 1c and M.G.L. c7 sec 22A (purchases from a vendor on contract with the Commonwealth), other contracts procured under M.G.L. c30B sec 1c and M.G.L. c. 30B contract between the vendor and the jurisdiction. All off contract items must be proccured under M.G.L. c. 30B.

The terms and conditions stated herein and the provisions of any agreement between MHQ and Buyer, if applicable, shall constitute the complete and only terms and conditions applicable to any and all purchases by Buyer from MHQ. Any additional and/or different terms and/or conditions printed anywhere including on, or with, Buyer's order shall be inapplicable in regard to any purchase by Buyer from MHQ.

## ORDER ACKNOWLEDGEMENT

**By signing this document you are agreeing to the above terms and conditions of this order from MHQ, Inc.**

**x**

**PRINT NAME**

**x**

**TITLE**

**x** **x**

**SIGNATURE** **DATE**

Quote provided by Shawn Daoust, Account Manager at MHQ - Public Safety Team
(508) 573-2625 or sdaoust@mhq.com

**Quote Number:** **QU0000419100**
**Effective:** 19 OCT 2017
**Effective To:** 18 DEC 2017

**Bill-To:**
FRAMINGHAM FIRE DEPT
10 LORING DR
FRAMINGHAM, MA 01702
United States

**Ultimate Destination:**
FRAMINGHAM FIRE DEPT
10 LORING DR
FRAMINGHAM, MA 01702
United States

Attention:
**Name:** Michael Dutcher
**Phone:** 508 532 5930

Sales Contact:
**Name:** George Voorhees
**Email:** gvoor@bellatlantic.net
**Phone:** 5088811503

**Contract Number:** ITT57 MA STATE
**Freight terms:** FOB Destination
**Payment terms:** Net 45

| Item | Quantity | Nomenclature | Description | List price | Your price | Extended Price |
|---|---|---|---|---|---|---|
| 1 | 1 | M25SSS9PW1AN | APX6500 UHF R2 MID POWER | $4,094.00 | $3,142.88 | $3,142.88 |
| 1a | 1 | W22BA | ADD: STD PALM MICROPHONE APEX | | | |
| 1b | 1 | G442AJ | ADD: O5 CONTROL HEAD | | | |
| 1c | 1 | G67BC | ADD: REMOTE MOUNT MID POWER | | | |
| 1d | 1 | G24AX | INT: 3 YEAR SERVICE FROM THE START LITE | | | |
| 1e | 1 | G444AE | ADD: APX CONTROL HEAD SOFTWARE | - | - | - |
| 1f | 1 | G490AD | ADD: ANT 1/4 WAVE 470-512 MHZ | | | |
| 1g | 1 | B18CR | ADD: AUXILARY SPKR 7.5 WATT | | | |
| 1h | 1 | GA00235AA | ADD: NO GPS ANTENNA NEEDED | - | - | - |
| 1i | 1 | Q811BS | DIGITAL CONVENTIONAL | | | |
| 2 | 640 | SVC03SVC0124D | SUBSCRIBER INSTALL - CUST LOCATION | $1.00 | $1.00 | $640.00 |
| (Notes)Field Installation and programming | | | | | | |

**Total Quote in USD** $3,782.88

1. Terms subject to ITT57 as modified by the clarifications and terms/conditions. For a full list of terms/conditions please contact you Motorola representative.

2. PO Issued to Motorola Solutions Inc. must:

>Be a valid Purchase Order (PO)/Contract/Notice to Proceed on Company Letterhead. Note: Purchase Requisitions cannot be accepted
>Have a PO Number/Contract Number & Date
>Identify "Motorola Solutions Inc." as the Vendor
>Have Payment Terms or Contract Number
>Be issued in the Legal Entity's Name
>Include a Bill-To Address with a Contact Name and Phone Number
>Include a Ship-To Address with a Contact Name and Phone Number
>Include an Ultimate Address (only if different than the Ship-To)
>Be Greater than or Equal to the Value of the Order
>Be in a Non-Editable Format

>Identify Tax Exemption Status (where applicable)
>Include a Signature (as Required)

3. Quotes are exclusive of all installation and programming charges (unless expressly stated) and all applicable taxes.

4. Prices quoted are valid for thirty(30) days from the date of this quote.

5. Unless otherwise stated, payment will be due within forty five day of invoice. Invoicing will occur concurrently with shipping. MOTOROLA DISCLAIMS ALL OTHER WARRANTIES WITH RESPECT TO THE ORDERED PRODUCTS, EXPRESS OR IMPLIED INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. MOTOROLA'S TOTAL LIABILITY ARISING FROM THE ORDERED PRODUCTS WILL BE LIMITED TO THE PURCHASE PRICE OF THE PRODUCTS WITH RESPECT TO WHICH LOSSES OR DAMAGES ARE CLAIMED. IN NO EVENT WILL MOTOROLA BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

# FY2019 Requested: Deferred beyond FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | FPS/B&G/2019/M | **Budget Year:** | 2019 |
| **Project Title:** | Vehicle Replacement - Utility Van | **Scenario:** | Main |
| **Asset Type:** | TRANSFER TRUCK | **Budget Status:** | Department Request |
| **Department:** | 09-971 - Building & Grounds Department | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2018 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

**Description:**

**Comments:**

**Justification:**

**Description:**

**Comments:**

**Project Forecast**

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 35,000 | 0 | 35,000 |
| | **35,000** | **0** | **35,000** |

# FY2019 Requested: Deferred beyond FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Highway/2019/K | **Budget Year:** | 2019 |
| **Project Title:** | Arlington Street Area Infrastructure Phases 1 and 1B - Design | **Scenario:** | Main 2019 |
| **Asset Type:** | STORM DRAIN | **Budget Status:** | Department Request |
| **Department:** | C4-411 - Engineering | **Regions:** | |
| **Project Type:** | Stormwater Improvement | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This funding request is for neighborhood-wide concept design, final design of a first phase of construction, and 60% design of a second phase, which will begin neighborhood and property owner consultation; refine, validate and document project criteria; and identify detailed construction costs and next steps.

## Comments:

In addition to addressing the condition of infrastructure, the repairs, replacements and improvements will enhance this residential and small businesses neighborhood immediately south of Downtown.

## Justification:

Most infrastructure in this neighborhood is in a state of disrepair or inadequacy, including many water mains that are over 100 years old and have fire flow concerns, frequent flooding due to very little drainage infrastructure, with many roads and sidewalks in very poor condition, and without disability accessibility. This project proposes to address these needs in an affordable multiphase implementation that will also reduce disruption to residents, businesses and through-traffic. This project was deferred from the FY2018 request.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 520,000 | 0 | 520,000 |
| | **520,000** | **0** | **520,000** |

November 3, 2017

John H. Rogers
Director of Project Development and Right of Way Acquisition
Town of Framingham – Department of Public Works
110 Western Avenue, Framingham, MA 01702

Re: Arlington Street Area Infrastructure Phases 1 and 1B Design

Mr. Rogers,

This letter confirms the need for $520,000 from the General Fund, and $90,000 from/for Sewer in funding for the following project:

**Project**
Arlington Street Area Infrastructure Phases 1 and 1B – Design

**Summary Description:**
Investigations into the replacement of the ca. 1885 water main in Arlington Street revealed the need to replace not only that water main, but sewer mains also, and almost all other key infrastructure assets in the vicinity. It's now been determined that most infrastructure in the South Framingham neighborhoods bound by Hollis Street, Irving Street, Beaver Dam Brook, and the southern CSX rail yard are in various states of disrepair or inadequacy, including other water mains with reduced fire flow and a high risk of breaks. Addressing them all in a coordinated fashion will reduce the total cost, including for emergency repairs.

Noteworthy in the area is the inadequate and poor condition of drainage systems, both on and serving private development, and the very limited amount of roadway drainage, resulting in frequent flooding at a number of locations. Though no direct damage appears to be a result of that flooding, poor roadway drainage commonly shortens the life of pavement. Also, apparent solutions to the flooding will require excavation alongside, over and under water and sewer lines, with a least total cost solution likely involving adjustments of one or more of the other infrastructure in the area, particularly in the relatively narrow roads where new gas lines were installed in 2016.

Numerous high priority sewer defects have been identified in this area, with cracks, breaks, gaps and infiltration into the pipes and manholes. In addition to the cost of conveying and treating infiltrating water, these conditions are indicative of a high risk of failure, and the need for greater maintenance due to roots, debris and other clogging.

Existing roads in the vicinity range from good to very poor condition (Pratt, Campbell and Hearth), with nearly all sidewalks in at least poor condition. As with many areas in Framingham, there are also many barriers to ADA accessibility.

Engineers | Scientists | Planners | Designers

101 Walnut Street
PO Box 9151
Watertown, Massachusetts 02471
P 617.924.1770
F 617.924.2286

A September 2017 "Arlington Street Improvements Study Report" evaluated and provided recommendations to improve drainage, reduce stormwater flooding, and a plan to repair or replace aging infrastructure such as water and sewer systems, pavement, curbs and sidewalks in the Project area. The study report included:

- Identification of a preferred alternative
- Phasing analysis
- Construction cost estimate
- Recommendations for next steps

The study recommended the project include three (3) construction phases to minimize disturbance to residents, businesses and through traffic, and allow the Town to budget for construction over multiple years. Recommendations for next steps included:

- Concept design of the entire area
- Design of phase 1 of the project to bid documents
- Design of drainage upgrades upstream of phase 1 to 60% design (referred to as Phase 1B)
- Additional hydrologic/hydraulic analysis to estimate impacts on Beaver Dam Brook

**Justification:**
Most infrastructure in this neighborhood is in a state of disrepair or inadequacy, including many water mains that are over 100 years old and have fire flow concerns, frequent flooding due to very little drainage infrastructure, with many roads and sidewalks in very poor condition, and without disability accessibility. This project proposes to address these needs in an affordable multiphase implementation that will also reduce disruption to residents, businesses and through-traffic. This project was deferred from the FY2018 request.

**Key Assets (Phase 1 and 1B):**
6,900 LF roadway to be rehabbed or replaced
14,000 LF sidewalk to be replaced or improved
5,200 LF drain pipes to be new (most), rehabbed or replaced
4,500 LF sewer main to be lined or replaced
4,500 LF water main to be replaced, with some potentially lined

If you should have any questions or require additional information please feel free to call me at 617-607-2766.

Sincerely,

Mark Costa

Project Manager
Markcosta@vhb.com

Tracie Lenhardt

Senior Project Manager
Tlenhardt@vhb.com

# FY2019 Requested: Deferred beyond FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Highway/2019/L | **Budget Year:** | 2019 |
| **Project Title:** | Saxonville Levee Stormwater Pump Station Rehabilitation - Construction | **Scenario:** | Main 2019 |
| **Asset Type:** | STORM DRAIN | **Budget Status:** | Department Request |
| **Department:** | C4-411 - Engineering | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This funding will perform construction of the equipment and building components rehabilitation at the Saxonville Stormwater Pump Station (SWPS) to maintain compliance with the federal Levee Safety Program.

## Comments:

## Justification:

The most recent inspection of this facility by the U.S. Army Corps of Engineers (USACE) resulted in a rating of “Minimally Acceptable”, with this drainage pumping station critical to the prevention of flooding of properties within Saxonville. Not addressing the identified deficiencies will lead to more costly issues and repairs in the future, and could make Framingham ineligible for future FEMA support and federal funding during emergency flood events. This project was deferred from the FY2018 requests.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 490,000 | 0 | 490,000 |
| | **490,000** | **0** | **490,000** |

November 3, 2017
W-P Project No. 13764A

Ms. Vonnie Reis, PE, Director of Capital Projects
Department of Public Works
110 Western Avenue
Framingham, MA 01702

Subject: Saxonville Levee Stormwater Pump Station Rehabilitation Project
FY2019 Funding Letter

Dear Ms. Reis:

The Saxonville Levee Stormwater Pump Station (SSWPS) Rehabilitation Project involves the upgrade and replacement of the station's equipment and ancillary systems. The SSWPS was originally constructed within an easement near Watson Place in Framingham, Massachusetts, as part of an Army Corps of Engineers flood control project in the late 1970's to protect the low-lying Saxonville area from flooding from the Sudbury River.

The station is now in need of upgrades to replace aging equipment and code deficiencies to assure its readiness in the event of future flooding. Key assets slated for upgrades include the diesel driven engines and fuel tank, pumps, piping, gates, electrical & HVAC systems, and ancillary components.

Specifically, the upgrades will address the following:

- Replacement of existing roof.
- Demolition and replacement of existing fuel tank with a new double-walled fuel tank.
- Improvements to restore the reliability of the existing diesel driven engines, including new clutch, radiators, belts, and hoses.
- Upgrades to the ventilation system to provide six (6) air changes per hour (when station is occupied) as required by code.
- Replacement of existing manual louvers with automatic louvers.
- Replacement and upgrades to all existing electrical components, such as lighting, switches, receptacles, and main distribution equipment.
- Replace conduit and wiring from the pump station to the levee gate.


40 Shattuck Road, Suite 305
Andover, MA 01810
Phone: 978.416.8000 | Fax: 978.470.3558

Based on the most recent estimate of probable cost, this letter confirms the need for $490,000 in funding for the construction of the Saxonville Stormwater Levee Pump Station Rehabilitation Project.

Sincerely,
WRIGHT-PIERCE

Michael Stein, PE
Project Manager
michael.stein@wright-pierce.com

cc: Robert Williamson, Wright-Pierce
Marc Moccio, Wright-Pierce

# FY2019 Requested: $4,500,000 Deferred beyond FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Highway/2019/D | **Budget Year:** | 2019 |
| **Project Title:** | Annual Various Road Improvements - 2019 | **Scenario:** | Main 2019 |
| **Asset Type:** | STREETS & ROADS | **Budget Status:** | Department Request |
| **Department:** | C4-422 - Highway | **Regions:** | |
| **Project Type:** | Roadway Infrastructure | **Active:** | Yes |
| **Year Identified:** | 2016 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

The Annual Road Program utilizes several different maintenance applications to ensure the appropriate road condition.
Roadway Resurfacing includes mill and Hot Mix Asphalt (HMA) overlay, which is the process of grinding off the top layer of existing asphalt pavement by means of a large milling machine and replacing this layer with at least two layers of a new HMA riding surface. A leveling course may be applied prior to the final riding surface to resolve various roadway defects, ensure proper drainage, and provide adequate rideability throughout the duration of the project. Drainage improvements are made if needed before paving. Curbing is re-laid or replaced if they are in poor condition or reset for adequate reveal. Sidewalk reconstruction includes ADA handicap ramp upgrades. Signage and traffic marking are upgraded. Tentative roads scheduled for roadway resurfacing are Fenwick Street, Wickford Road, Sturgis Road, Normandy Road, Sanger Street, Thompson Street, William Welch Way and Speen Street.

The Department also utilizes several different Roadway Surface Treatment applications including:

Rubber chip seal is typically applied to neighborhood roads with low to moderate volume traffic volumes. The treatment is used to provide a flexible, waterproof wearing surface that seals the existing pavement and is highly resistant to cracking. Installation includes a HMA shim course to redefine the profile of the road, provide structural stability, and improve rideability. All utility castings are raised to finish grade, driveway aprons are adjusted as needed, and a rubber chip seal topcoat is applied. Signage and traffic markings are upgraded. The annual road program is scheduled to include: Ridgefield Drive, Leonard Road, Lohnes Road, Blackthorn Road, Bantry Road, Rosslare Road, Tara Road, Poskus Road, Hastings Street, Sunset Drive, Pitt Road, Cavanaugh Road, Fairbanks Road, Fairbanks Way, Highland Court, Murray Road, Magnolia Street, Michaud Drive, Childs Circle, Woodside Cottage Way, Gil Leonard Road, Wyndstone Way, Highgate Road, and Crestwood Drive.

Rubber chip seal can also be used in conjunction with other roadway treatments as a Stress Absorbing Membrane Interlayer (SAMI). The SAMI seals the roadway and extends its service life. Bonded Wearing Course (or Novachip) can be applied after a SAMI and includes a thin layer of a polymer modified asphalt emulsion sprayed onto the road surface followed immediately by an overlay of HMA. Castings are raised to grade and traffic markings are restored. Tentative roads scheduled for this surface treatment application are Salem End Road (partial), Parmentor Road, and Nixon Road.

Mill and fill operations are also performed by the Department in conjunction with specialized contracted equipment to address surface defects. Mill and fill can be used as a stand-alone roadway maintenance method or can be used in preparation for surface treatment products.

## Justification:

Without substantial ongoing improvements, the roadway system will deteriorate rapidly, and cost more to raise back up to a State of Good Repair.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 7,500,000 | 0 | 7,500,000 |
| | **7,500,000** | **0** | **7,500,000** |

# FY2019 Requested: Deferred beyond FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Highway/2019/M | **Budget Year:** | 2019 |
| **Project Title:** | Annual Traffic Calming - 2019 | **Scenario:** | Main 2019 |
| **Asset Type:** | STREETS & ROADS | **Budget Status:** | Department Request |
| **Department:** | C4-422 - Highway | **Regions:** | |
| **Project Type:** | Roadway Infrastructure | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

**Description:**

Annual Appropriation for Traffic Calming Improvements.

**Comments:**

**Justification:**

Necessary infrastructure improvements.

**Description:**

**Comments:**

**Project Forecast**

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 100,000 | 0 | 100,000 |
| | **100,000** | **0** | **100,000** |

# FY2019 Requested: Deferred beyond FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Sanitation/2019/A | **Budget Year:** | 2019 |
| **Project Title:** | Replace 2008 Sanitation Division Support Truck, #505 | **Scenario:** | Main 2019 |
| **Asset Type:** | PICK UP TRUCKS | **Budget Status:** | Department Request |
| **Department:** | C7-422 - Highway | **Regions:** | |
| **Project Type:** | Public Works Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

Replace 2008 Sanitation Division Support Truck, #505

## Comments:

Service performance, pride of service and community support are all emphasized by DPW, with vehicle cleanliness an important expression of those, and a responsibility of DPW staff.

## Justification:

All of the existing vehicles being replaced will have exceeded 10 years in service when replaced (and sold), and nearly all are near to or over 100,000 miles or run-hours equivalent. Industry and Framingham DPW experience indicates that above those thresholds maintenance increases substantially to assure service reliability, as do major repairs, none of which provide a return on investment, and they are not sustainable with the current DPW facility and staffing. In addition to daily service for the various Divisions, they all are used for the Department's snow and ice management program, with many also used to respond to community events and emergencies. Snow plowing is particularly destructive to vehicles.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 68,393 | 0 | 68,393 |
| | **68,393** | **0** | **68,393** |

# QUOTE

**CUSTOMER**

Contact Name: Town of Framingham
Company/Dept: Department of Public Works
Street Address: 100 Western Ave.
City, State, Zip: Framingham, MA 01702
Phone: 508-532-6070
E-Mail: fjd@framinghamma.gov

Date: 10/30/2017
Valid for: 60 Days*
Customer #: 10141
Contract: GBPC/BAPERN 2015
Sales Rep: GAK

| CONTRACT LINE REFERENCE | LINE DESCRIPTION | UNIT PRICE | QTY. | EXTENDED PRICE |
|---|---|---|---|---|
| | | | | |
| F5H | 2018 F550 Chassis 4X4 Regular Cab 145" wb, 60" CA 18,000# GVWR | | | |
| | V10 gasoline engine | | | |
| SP101 | Factory Special Paint, W6695F Yellow | | | |
| | Four Wheel Drive with manual locking hubs | | | |
| | Automatic Transmission, AM/FM radio with digital clock | | | |
| | HD vinyl bench seat, HD vinyl flooring, and spare tire | | | |
| | Factory upfitter switches, spare tire on wheel | | | |
| 43C | 110V/400 Watt Power Outlet (1) | | | |
| 473 | Factory Snow Plow Prep | | | |
| X8L | 4:88 limited slip rear axle | | | |
| 62R | Transmission PTO provision | | | |
| 52B | Trailer brake controller | | | |
| 18B | Black molded running boards factory installed RC | | | |
| TGB | 225/70RX19.5 BSW Traction Tires, Front & Rear | | | |
| 68U | 19,000 Lb. GVWR Payload Upgrade, 60" CA Gas only | | | |
| 2.05 | Diamond/Meyer 9' snow plow w/ poly foil and steel bolt on edge | | | |
| 6.02 | Heavy duty 12'6" platform body with stake sides | | | |
| 6.08 | Steel bulkhead for platform body | | | |
| 6.13 | Diamond plate steel floor in lieu of wood | | | |
| 7.12 | Thieman 2,000# electric hydraulic aluminum lift gate- direct lift | | | |
| | Upgrade tailgate with rollers on slides | | | |
| | Upgrade tailgate with light kit | | | |
| 7.01 | 30" stainless steel under body toolbox | | | |
| 7.02 | Poly rear fenders, frame mounted (Light Duty Chassis) | | | |
| 7.07 | Reinforced plate mounted ball and pintle hook combination | | | |
| 7.05 | Trailer plug, wired | | | |
| 1.16 | Code 3 Electronic back up alarm # D450H | | | |
| N/A | Driver's door mounted incandescent spotlight | | | |
| N/A | Mobile Radio | | | |
| N/A | Emergency/safety lights | | | |
| | | | | |
| | | | TAX: | |
| | | | **TOTAL:** | **$68,393.00** |

**TERMS AND CONDITIONS**

**ORDER ACKNOWLEDGEMENT**

**By signing this document you are agreeing to the above terms and conditions of this order from MHQ, Inc.**

# FY2019 Requested: Deferred beyond FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Highway/2019/B | **Budget Year:** | 2019 |
| **Project Title:** | Replace 1996 Sidewalk Tractor, #462 | **Scenario:** | Main 2019 |
| **Asset Type:** | SIDEWALK PLOW/SNOWBLOWER | **Budget Status:** | Department Request |
| **Department:** | C7-422 - Highway | **Regions:** | |
| **Project Type:** | Public Works Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This funding request is for the replacement of a 1996 Trackless sidewalk tractor, #462, which is needed for sidewalk clearing throughout Town, with schedule priority around schools.

## Comments:

Service performance, pride of service and community support are all emphasized by DPW, with vehicle cleanliness an important expression of those, and a responsibility of DPW staff.

## Justification:

The existing equipment has exceeded its anticipated service life, and is used for the Department's snow and ice management program. This equipment was deferred from the FY2018 request.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 192,420 | 0 | 192,420 |
| | **192,420** | **0** | **192,420** |

# Team Eagle Inc .

141 Sanborn Rd , Tilton , New Hampshire, 03276, U.S.A .


November 2, 2017

Attention: Mr. Fred Davies
Town of Framingham
Department of Public Works
100 Western Avenue
Framingham, MA 01702
508-328-1796
fjd@framinghamma .gov

Dear Mr. Davies ,

Thank you for giving Team Eagle the opportunity to provide budget pricing for the Multihog MXC120 -a multi-season, multi -purpose utility vehicle. Please see below for pricing information .

Multihog MXC 120 $192,420

120HP tier 4 engine
- 7716Jb front axle capacity
- 9920Ib rear axle capacity
- 63db interior noise level for operator comfort and safety

51' Snowquip Snow Blower

5' Strait Plow

5' V-Plow

Mobile Radio

# FY2019 Requested: Deferred beyond FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Highway/2019/C | **Budget Year:** | 2019 |
| **Project Title:** | Replace Highway Dump Truck, #412 | **Scenario:** | Main 2019 |
| **Asset Type:** | DUMP TRUCKS | **Budget Status:** | Department Request |
| **Department:** | C7-422 - Highway | **Regions:** | |
| **Project Type:** | Public Works Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This funding request is for the replacement of a 2007 dump truck, #412.

## Comments:

Service performance, pride of service and community support are all emphasized by DPW, with vehicle cleanliness an important expression of those, and a responsibility of DPW staff.

## Justification:

All of the existing vehicles being replaced will have exceeded 10 years in service when replaced (and sold), and nearly all are near to or over 100,000 miles or run-hours equivalent. Industry and Framingham DPW experience indicates that above those thresholds maintenance increases substantially to assure service reliability, as do major repairs, none of which provide a return on investment, and they are not sustainable with the current DPW facility and staffing. In addition to daily service for the various Divisions, they all are used for the Department's snow and ice management program, with many also used to respond to community events and emergencies. Snow plowing is particularly destructive to vehicles.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 72,153 | 0 | 72,153 |
| | **72,153** | **0** | **72,153** |

## Project Details 2019

| Object | Description | | Total Amount |
|---|---|---|---|
| **Expense** | | | |
| 34225006-58530 | Equipment | | 72,153 |
| | | **Total Expense:** | **72,153** |

## Related Projects

## Operating Budget Impact

| Budget Year | Exp (Rev) | FTE Impact |
|---|---|---|

# Team Eagle Inc .

141 Sanborn Rd , Tilton , New Hampshire, 03276, U.S.A .


November 2, 2017

Attention: Mr. Fred Davies
Town of Framingham
Department of Public Works
100 Western Avenue
Framingham, MA 01702
508-328-1796
fjd@framinghamma .gov

Dear Mr. Davies ,

Thank you for giving Team Eagle the opportunity to provide budget pricing for the Multihog MXC120 -a multi-season, multi -purpose utility vehicle. Please see below for pricing information .

Multihog MXC 120 $192,420

120HP tier 4 engine
- 7716Jb front axle capacity
- 9920Ib rear axle capacity
- 63db interior noise level for operator comfort and safety

51' Snowquip Snow Blower

5' Strait Plow

5' V-Plow

Mobile Radio

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120HP tier 4 engine
- 7716Jb front axle capacity
- 9920Ib rear axle capacity
- 63db interior noise level for operator comfort and safety

51' Snowquip Snow Blower

5' Strait Plow

5' V-Plow

Mobile Radio

# FY2019 Requested: Deferred beyond FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Sanitation/2019/C | **Budget Year:** | 2019 |
| **Project Title:** | RDC Replacement – Design & Construction | **Scenario:** | Main 2019 |
| **Asset Type:** | BUILDING NEW | **Budget Status:** | Department Request |
| **Department:** | C4-433 - Sanitation | **Regions:** | |
| **Project Type:** | Public Works Non-Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

**Description:**

This funding will provide for the design of the demolition of the remaining incinerator building, and the design and construction of a new solid waste operations building.

**Comments:**

**Justification:**

The former incinerator building is in disrepair, and a best value sanitation operations support facility will be designed to meet needs, including equipment protection.

**Description:**

**Comments:**

**Project Forecast**

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 3,900,000 | 0 | 3,900,000 |
| | **3,900,000** | **0** | **3,900,000** |

CELEBRATING 35 YEARS

November 07, 2017

Mr. Daniel S. Nau
Director of Highway and Solid Waste Management
Town of Framingham
100 Western Avenue
Framingham, MA 01072

**Re: RDC – Demolition Design & Construction of new Solid Waste Operations Building & Corrective Actions Alternative Analysis (CAAA) for Dudley Road Landfill Closure**

Dear Mr. Nau:

This letter confirms the need for $90,000 from the General Fund for the Landfill CAAA Study, and $3,900,000 from the General Fund for the RDC, as described below.

This funding will provide for design services related to the demolition of the former Mt. Wayte Avenue Incinerator Building, construction of a new Solid Waste Operations Building, and the Corrective Action Alternatives Analysis (CAAA) necessary to meet MassDEP requirements for formal closure of the associated Dudley Road Landfill. The former incinerator building is in a severe state of disrepair, and a "best value" sanitation operations support facility will be designed to meet City needs, including equipment protection. In addition, the next phase of the formal landfill closure process (CAAA) stipulated in MassDEP Solid Waste Regulations will be conducted. Failure to close the landfill in accordance with those Regulations could subject the City to fines, potentially dating back to cessation of landfill operations.

Key assets under this project include a new Solid Waste Operations Building and formal closure of the former Dudley Road Landfill.

We trust this information meets your current needs. Please call me with any questions.

Respectfully yours,
**BETA GROUP INC.**

Alan D. Hanscom, LSP
Vice President

Cc: John Rogers, Director of Project Development and Right of Way Acquisition
Kristine Wheeler, Program Administrator and Operations Dispatcher

BETA GROUP, INC.
315 Norwood Park South, 2nd Floor, Norwood, MA 02062
P: 781.255.1982 | F: 781.255.1974 | W: www.BETA-Inc.com

# FY2019 Requested: Deferred beyond FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | PARK/ParkRec/2019/C | **Budget Year:** | 2019 |
| **Project Title:** | F450 4x4 Chip Body Truck | **Scenario:** | Main 2019 |
| **Asset Type:** | PICK UP TRUCKS | **Budget Status:** | Department Request |
| **Department:** | C7-650 - Parks & Recreation | **Regions:** | |
| **Project Type:** | Parks Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2011 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

These funds will be used to purchase a F450 Chip Body Truck to replace a 2000 Ford F450 4x4 Chip Body Truck with 43,495 miles, equating to 65,243 engine miles.

## Comments:

## Justification:

The Parks Maintenance Department has a limited amount of vehicles within its fleet to support its operational demands. This vehicle, listed within our fleet as Truck 16, is a F450 Chip Body Truck used to transport staff and support tree removal/maintenance operations on a daily basis.

The vehicle has sustained major rust damage to its frame, necessitating a full body replacement within the past five years. Currently, this vehicle has number of mechanical issues that will require repair to remain operational within fleet. These include a leaking and failing oil pan and leaking rear main engine seal, both requiring replacement. In addition to these issues, the vehicle will also require the following repairs to remain in operation:

• Replacement of both sets of rear springs;
• Replacement of ball joints;
• Replacement of shifter cable and assembly;
• Replacement of rusted, leaking oil pan and rear main engine seal that requires removal of the engine and transmission;
• Replacement of shocks;
• Replacement of tie-rod ends;

After 18 years of operational service, the overall physical and mechanical condition of Truck 16 is significantly degraded, requiring replacement.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 78,230 | 0 | 78,230 |
| | **78,230** | **0** | **78,230** |

| 2018 F450 CHIPPER PICKUP TRUCK | |
|---|---|
| Estimate from MHQ, October 2017 | $71,118.00 |
| **Sub Total** | |
| 10% Estimated Cost Escalation for FY19 Contract | $7,111.80 |
| | |
| **Total** | **$78,229.80** |

Price per quote Greg Keith at MHQ
* Price Escalation due to anticipated 2018 contract

# Framingham
# Parks and Recreation Department

**475 Union Avenue · 508 532 5960**

## Memorandum

**From the desk of Donald Capen**

November 4, 2017

**RE: Capital Budget Vehicle Replacement – 2000 Ford F450 4x4 Chip Body Truck**

Chris,

As requested, the following is a description of the current issues with the 2000 Ford F450 4x4 Regular Chip Body Truck. Currently, this vehicle has 43,495 miles on the odometer.

Due to the age of this vehicle and current condition, it is utilized minimally on a daily basis. Current issues requiring attention, labor and expense are:

- Replacement of both sets of rear springs;
- Replacement of ball joints;
- Replacement of shifter cable and assembly;
- Replacement of rusted, leaking oil pan and rear main engine seal that requires removal of the engine and transmission;
- Replacement of shocks;
- Replacement of tie-rod ends;

Currently, this vehicle has number of mechanical issues that will require repair to remain operational within fleet. These include a leaking and failing oil pan and leaking rear main engine seal, both requiring replacement.

After 18 years of operational service, the overall physical and mechanical condition of the vehicle is significantly degraded. Based on an overall assessment of the vehicle, I believe it has reached its useful life expectancy and would recommend replacement.

Regards,

Donald Capen
Mechanic

PARKS
TOWN OF FRAMINGHAM, MA
& RECREATION

MHQ
VEHICLES ■ EQUIPMENT ■ GEAR

# QUOTE

## CUSTOMER

| | | | |
|---|---|---|---|
| Contact Name: | Town of Framingham | Date: | 10/31/2017 |
| Company/Dept | Parks Department | Valid for: | 60 Days* |
| Street Address: | 475 Union Ave | Customer #: | 10142 |
| City, State, Zip: | Framingham, MA 01702 | Contract: | GBPC/BAPERN 2015 |
| Phone: | 508-532-5960 | Sales Rep: | GAK |
| E-Mail: | cam@framinghamma.gov | | |

| CONTRACT LINE REFERENCE | LINE DESCRIPTION | UNIT PRICE | QTY. | EXTENDED PRICE |
|---|---|---|---|---|
| | | | | $0.00 |
| F4H | 2018 F450 Chassis 4X4 Regular Cab 145"WB, 60"CA, 16,000 GVWR | $35,000.00 | 1 | $35,000.00 |
| | SVO Color: Green Gem | $623.00 | 1 | $623.00 |
| 99T | 6.7 Liter Power Stroke diesel engine | $8,618.00 | 1 | $8,618.00 |
| | 4:10 Limited slip axle | $349.00 | 1 | $349.00 |
| TGB | 225/70RX19.5 BSW Traction Tires, Front & Rear | $208.00 | 1 | $208.00 |
| 473 | Snowplow prep package | $179.00 | 1 | $179.00 |
| 41H | Engine block heater | $87.00 | 1 | $87.00 |
| 62R | Transmission PTO provision | $271.00 | 1 | $271.00 |
| 98R | Operator commanded diesel regeneration | $242.00 | 1 | $242.00 |
| 213 | Electronic shift on the fly four wheel drive | $179.00 | 1 | $179.00 |
| 52B | Trailer brake controller | $261.00 | 1 | $261.00 |
| 18B | Black Molded Running Boards, Crew Cab | $431.00 | 1 | $431.00 |
| | 6-Speed Automatic Transmission | included | | |
| | HD vinyl bench seat, HD vinyl flooring, Air conditioning and spare tire | included | | |
| | AM/FM radio with digital clock & four upfitter switches | included | | |
| 1.09 | Whelen Super LED D.O.T. (3) light warning system , model DOT3702A | $1,745.00 | 1 | $1,745.00 |
| 3.09 | Whelen (2) LED Vertex hideaway system, model # VTX609-2 | $235.00 | 1 | $235.00 |
| 5.43 | 9' enclosed chipper body (56" tall) | $14,495.00 | 1 | $14,495.00 |
| N/A | Increase body height to 72" with upper door for use with leaf vac | $3,130.00 | 1 | $3,130.00 |
| 4.03 | Transmission PTO driven central hydraulic system | $4,395.00 | 1 | $4,395.00 |
| 7.07 | Reinforced plate mounted ball and pintle hook combo | $495.00 | 1 | $495.00 |
| 7.05 | Trailer plug, wired | $175.00 | 1 | $175.00 |
| 8.08 | Motorola CDM1250, 64 channel, Alpha display, 45 Watt, VHF High Band front mount radio frequency range136-174 MHz model # AAM25KKD9AA2 | | 1 | |
| | | | | |
| | | | TAX: | |
| | | | TOTAL: | $71,118.00 |

## TERMS AND CONDITIONS

*This quote is valid for 60 days from the date of quote. Any purchase orders or approved quotes received outside of the 60 day quote period will be subject to price adjustments. By signing this quote, the customer is agreeing to pay, in full, for all items listed above. Any requests for changes, modifications, replacements, removals or additional items may be subject to additional fees and/or adjusted delivery dates.

M.G.L c. 30B applies to the procurement of all commodities quoted. Contract items have been collectively purchased pursuant to M.G.L c 30B sec 1c and M.G.L c.7 sec 22B. The government body is responsible to determine the applicibility of M.G.L. c30B to off contract items, but not limited to, off contract items that have already been properly procured under M.G.L. c30B sec 1c and M.G.L. c7 sec 22A (purchases from a vendor on contract with the Commonwealth), other contracts procured under M.G.L. c30B sec 1c and M.G.L. c. 30B contract between the vendor and the jurisdiction. All off contract items must be proccured under M.G.L. c. 30B.

The terms and conditions stated herein and the provisions of any agreement between MHQ and Buyer, if applicable, shall constitute the complete and only terms and conditions applicable to any and all purchases by Buyer from MHQ. Any additional and/or different terms and/or conditions printed anywhere including on, or with, Buyer's order shall be inapplicable in regard to any purchase by Buyer from MHQ.

## ORDER ACKNOWLEDGEMENT

By signing this document you are agreeing to the above terms and conditions of this order from MHQ, Inc.

x

PRINT NAME

x

TITLE

x

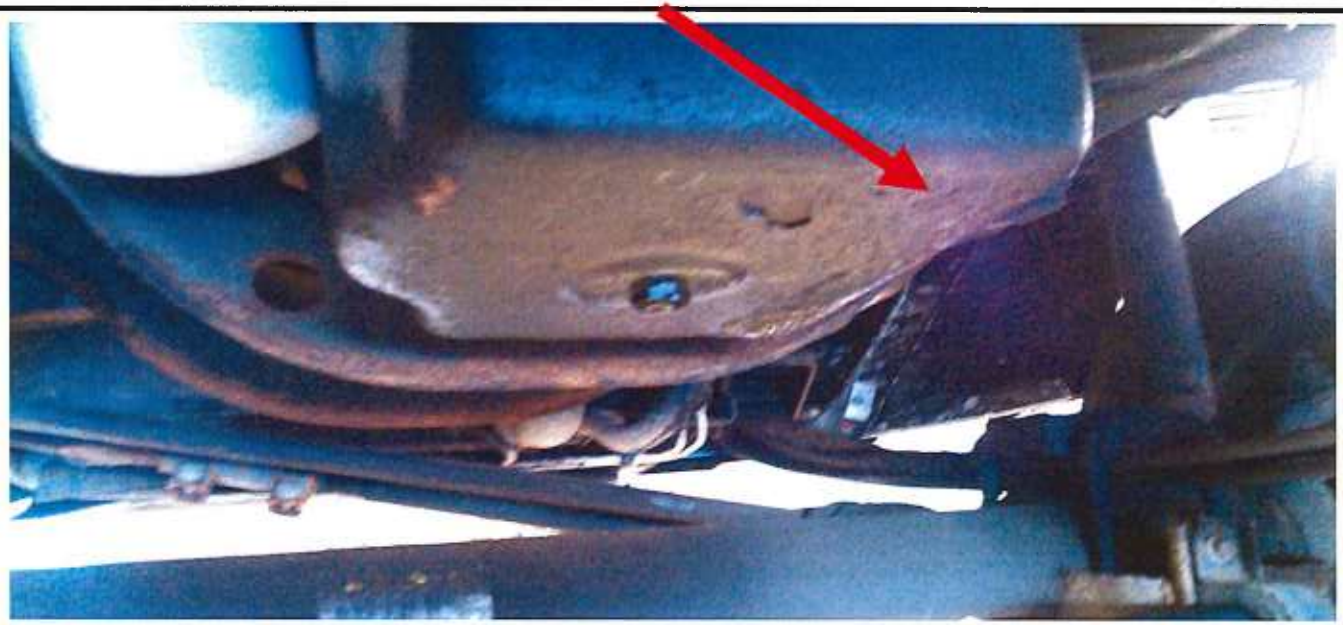
SIGNATURE

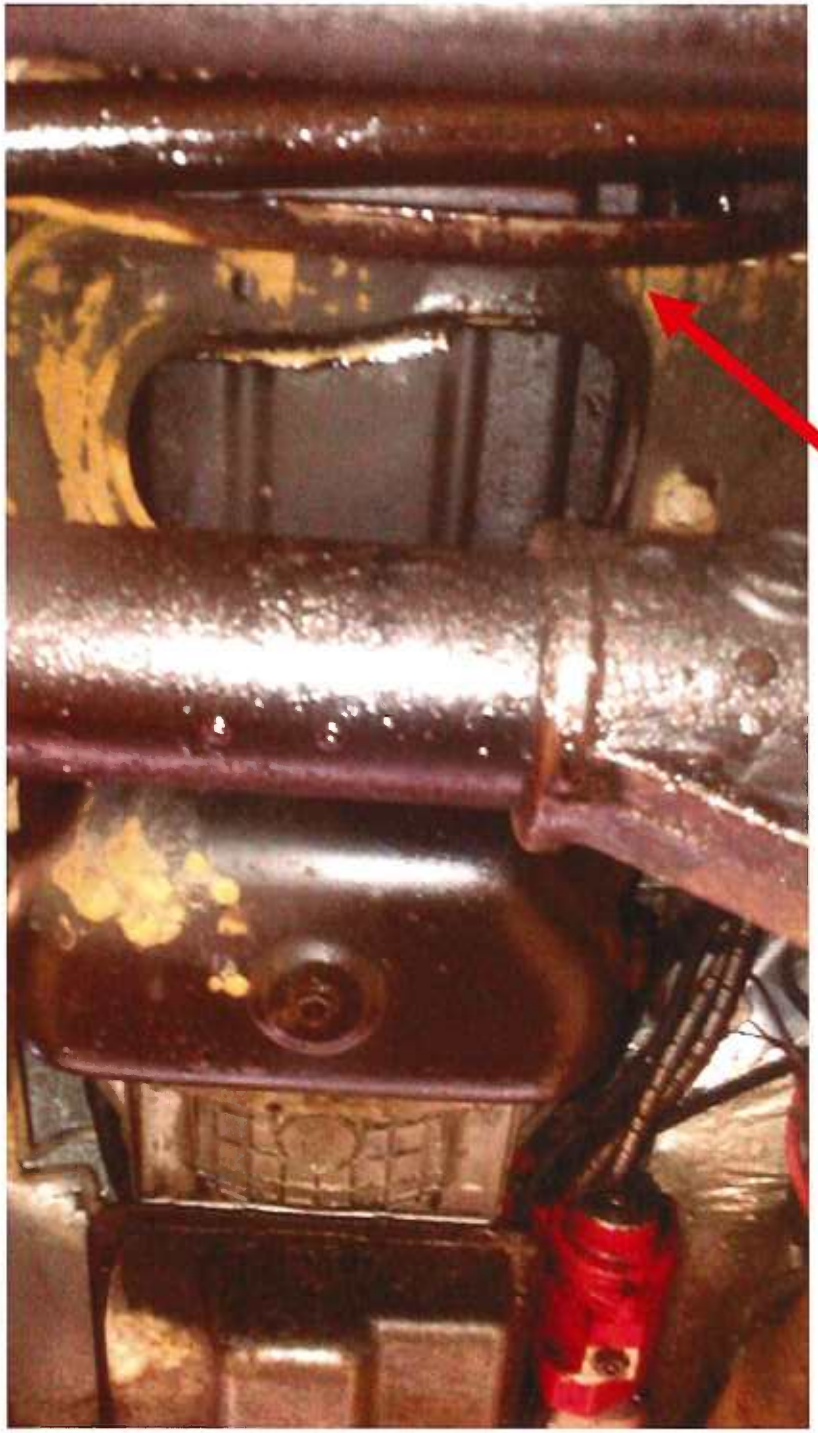
Quote provided by Greg Keith, Key Accounts Manager at MHQ
(508) 954-2225 or gkeith@mhq.com

# 2000 F450 Chip Body

Choose FRAMINGHAM

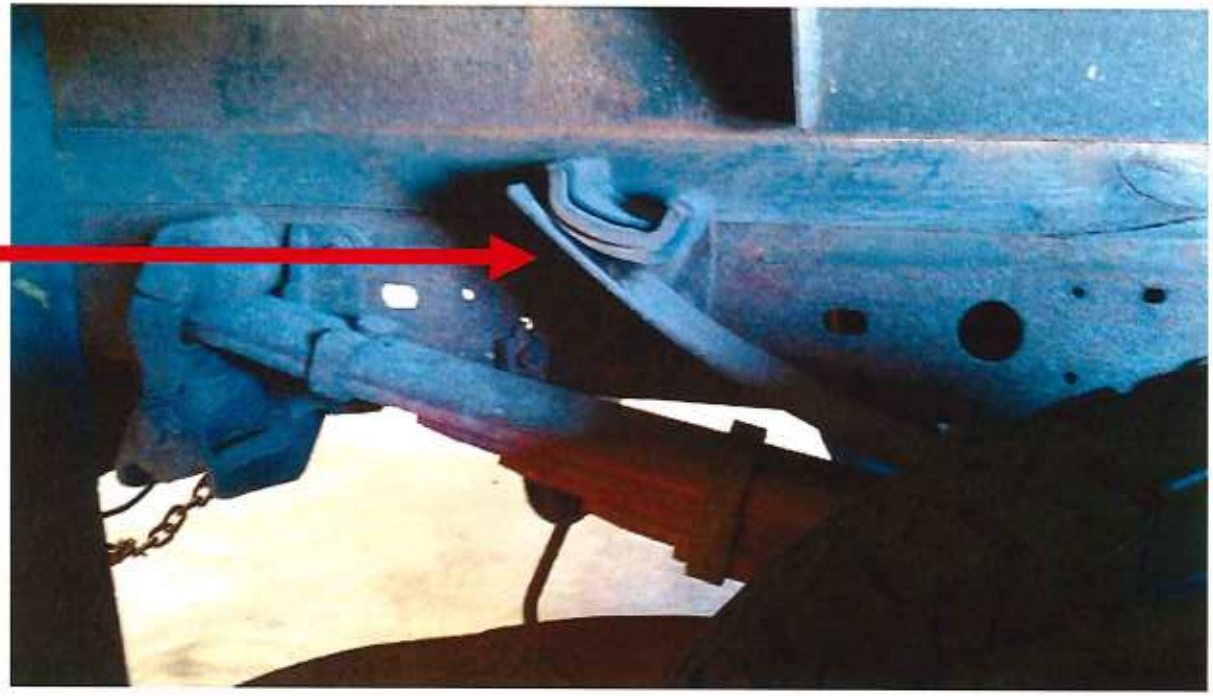
Rust damage and leakage of oil tank requiring removal of engine for repair.





Leakage of rear main engine seal that will requiring removal of transmission to repair.

Failing rear springs, causing truck to rest on its helper springs prior to addition of rear loads, creating load instability.



# FY2019 Requested: Deferred beyond FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | PARK/ParkRec/2019/D | **Budget Year:** | 2019 |
| **Project Title:** | Kubota Tractor L4740 GST 4x4 | **Scenario:** | Main 2019 |
| **Asset Type:** | | **Budget Status:** | Department Request |
| **Department:** | C7-650 - Parks & Recreation | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2013 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

These funds will be used to purchase a Kubota Tractor 4x4 GST to replace a 1997 Kubota Tractor with 2,757 operational hours, equating to 96,495 engine miles. This new purchase will allow for the current Kubota to be used as a backup for daily activities and maintain a reduced working schedule.

## Comments:

## Justification:

This vehicle, listed within our fleet as Truck 22, is a Kubota Tractor that is used to maintain fields on a daily basis. This tractor contains the ability to serve as a backhoe, fertilizer applicator, aerator, rototiller and front end loader. Due to the amount of engine hours accrued by the tractor, it is a major risk of failing, which would cause significant setbacks to the daily operational needs of the Parks Maintenance Department.

In addition to the age and amount of usage this tractor has experienced, the tractor will also require the following repairs to remain in operation:

• Replacement of front bucket assembly bushings and grease fittings;
• Rebuilding of front bucket valve body;
• Replacement of cab;

In addition to these concerns and deficiencies, the evolving operational environment is requiring the need for an additional tractor with multiple use functions. Currently, there are two Kubota Tractors (1997 & 2006) within fleet. During the height of seasonal operations, there is continually a gap in service due to the rising need for these tractors and limited inventory. By purchasing this Kubota, we will be able to adequately meet the operational needs of the Maintenance Department in management of over 550 acres of Town/City Property.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 38,808 | 0 | 38,808 |
| | **38,808** | **0** | **38,808** |

| 2018 Kubota Tractor 4x4 GST | |
|---|---|
| Estimate from Norfolk Power Equipment, 11/2017 | $36,960.00 |
| **Sub Total** | |
| 5% Estimated Cost Escalation for FY19 Contract | $1,848.00 |
| **Total** | **$38,808.00** |

Price per quote from Fred Noonon at Norlfolk Power Equipment
received November, 2017

# Framingham
# Parks and Recreation Department

**475 Union Avenue · 508 532 5960**

## Memorandum

**From the desk of Donald Capen**

November 4, 2017

**RE: Capital Budget Vehicle Replacement – 1997 Kubota Tractor L4740**

Chris,

As requested, the following is a description of the current issues with the 1997 Kubota Tractor. Currently, this vehicle has 96,495 engine miles.

Due to the amount of engine hours accrued by the tractor, it is a major risk of failing, which would cause significant setbacks to the daily operational needs of the Parks Maintenance Department. Current issues requiring attention, labor and expense are:

- Replacement of front bucket assembly bushings and grease fittings;
- Rebuilding of front bucket valve body;
- Replacement of cab;

After 21 years of operational service, the overall physical and mechanical condition of the vehicle is significantly degraded. Based on an overall assessment of the vehicle, I believe it has reached its useful life expectancy and would recommend replacement.

Regards,

Donald Capen
Mechanic

PARKS
TOWN OF FRAMINGHAM, MA
& RECREATION

# NORFOLK POWER EQUIPMENT


846 Bronco Highway
Burrillville, RI 02830
Tel: (401) 710-9911
Fax: (401) 710-9466

5 Cushing Drive
Wrentham, MA 02093
Tel: (508) 384-0011
Fax: (508) 384-8667

45 North Main Street
Carver, MA 02330
Tel: (774) 213-9190
Fax: (508) 465-0931

*www.norfolkpower.com ** Please remit payment to Wrentham address ** info@norfolkpower.com*


SOLD TO
RFR041 FRAMINGHAM PARK & RECREATION
475 UNION AVE
FRAMINGHAM, MA 01701

SHIP TO

Sold By: FN PO #: L TRAC Date 11/01/17 QUOTE QT34110
Ship By: Tax #: 046001151 16:10:37 Open

| Tax | D | Qty | Description ----------* | Price | Amount |
|---|---|---|---|---|---|
| | | | MISC EQPT | | |
| N | | | KUBOTA L4760GST TRACTOR W/ | | |
| N | | | 29X1250X15 FT TURFS | | |
| N | | | 44X18X20 REAR TURFS | | 28200.00 |
| N | | | L8398 AND L8393 REMOTE VALVES | | 900.00 |
| N | | | L8170 BALLEST BOX | | 450.00 |
| N | | | MX8068 WT BRKT | | |
| N | | | BL8060 7 WEIGHTS | | 600.00 |
| N | | | LA1055 FL LOADER W/72 HD BUCKET | | 5450.00 |
| N | | | | | |
| N | | | ALR8708 FRONT TIRE 29X1250X15 | | 435.00 |
| N | | | ALR6803 44X18X20 REAR TIRE | | 925.00 |
| | | | ** TOTAL MISC EQPT | | 36960.00 |

***All new equipment quotes valid for 45 days unless stated otherwise.***

** SUBTOTAL 36960.00

X_____ Charge Sale

Phone: (508)532-5960

PAY THIS AMOUNT $36960.00

# 1997 Kubota Tractor 4x4 GST

Choose FRAMINGHAM

# FY2019 Requested: Deferred beyond FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | PARK/ParkRec/2019/G | **Budget Year:** | 2019 |
| **Project Title:** | Fence and Backstop Replacement Phase 3 | **Scenario:** | Main 2019 |
| **Asset Type:** | | **Budget Status:** | Department Request |
| **Department:** | C7-650 - Parks & Recreation | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2010 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

Demolish and replace various size chain link fence, gates, and guardrail at various parks properties.

## Comments:

## Justification:

Properly maintained vertical structures at park facilities have a dramatic impact on overall neighborhood culture and public safety. Properly maintained parks are integral to neighborhood beautification, stabilization, site usability, public safety, and maintaining surrounding property values. The Board of Selectmen Vision Statement indicates "Our Town will foster a sense of pride by placing a high priority on quality education, neighborhood parks ... and promote a clean and beautiful Town." The "Choose Framingham" initiative identifies the fact that "the average distance to a playground or other recreation area from any single family parcel is approximately a quarter of a mile." As such, by replacing fence and backstops at park locations we are able to continue on forwarding not only the Board of Selectmen's Vision Statement but also continue to build neighborhood pride in local parks.

In addition to maintaining neighborhood parks and other passive recreational facilities throughout the Town, the Parks, Recreation & Cultural Affairs Division also maintains three cemeteries (Edwards Cemetery, Old South Burial Grounds, Main Street Cemetery). Parks staff members have identified needed replacement of various fence lines at these three cemeteries. Normal aging, tree damage and the need for fencing placement has resulted in identifying these three locations for improvements.

Phase 3 of the Fence and Backstop Replacement program includes improvements at the following Parks & Recreation maintained properties:

* Removal and replacement of chain link installations at Main Street Cemetery
* Removal and replacement of chain link installations at Old South Cemetery
* Removal of chain link installations and replacement consisting of wooden guardrail at Edwards Cemetery
* Removal and replacement of telephone stump fencing at Winch Tennis Courts
* Removal and replacement of oversized backstop at Charlotte Dunning Softball Field

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 263,987 | 0 | 263,987 |
| | **263,987** | **0** | **263,987** |

| Fence and Backstop Repair | | | |
|---|---|---|---|
| | | | |
| | | 10% Contingency | Sub Total |
| Phase III | $239,988.00 | $23,998.80 | $263,986.80 |
| Phase IV | $311,696.00 | $31,169.60 | $342,865.60 |
| Phase V | $368,001.50 | $36,800.15 | $404,801.65 |
| | | | |
| Total | | | $1,011,654.05 |

# Fence & Backstop Replacement
# Phase III

| | | Item | Qty. | Unit Price | | Total |
|---|---|---|---|---|---|---|
| Dunning Softball (School) | | Backstop 16' | 1 | $25,250.00 | | $ 25,250.00 |
| Backstop Removals | | | 1 | $2,250.00 | | $ 2,250.00 |
| Dunning Complex | | 8 ft. fencing installation | 30 | $84.50 | | $ 2,535.00 |
| Walsh Upper Softball (School) | | Backstop 16' | 1 | $25,250.00 | | $ 25,250.00 |
| Backstop Removals | | | 1 | $2,250.00 | | $ 2,250.00 |
| Walsh Upper Softball (School) | | 8 ft. fencing installation | 30 | $84.50 | | $ 2,535.00 |
| | | | | | | |
| Longs Complex | | | | | | |
| Carter Field | | 6 ft. fencing installation | 330 | $73.60 | | $ 3,712.50 |
| Merloni Field | | 6 ft. fencing installation | 530 | $73.60 | | $ 39,008.00 |
| Tersoni field | | 8 ft. fencing installation | 700 | $84.50 | | $ 36,135.00 |
| Upper Longs | | Wooden Guard Rail | 250 | $49.50 | | $ 16,500.00 |
| | | | | | | |
| Kellog Street Canoe Launch | | Wooden Guardrail | 75 | $49.50 | | $ 3,712.50 |
| | | | | | | |
| Winch Park | | Wooden Guardrail | 730 | $49.50 | | $ 24,750.00 |
| Winch Park | | Leafgate (14 ft.) | 1 | $16,500.00 | | $ 16,500.00 |
| | | | | | | |
| Danforth Park | | Wooden Guardrail | 300 | $ 49.50 | | $ 14,850.00 |
| | | | | | | |
| Cushing Park, Keefe side lot | | Wooden Guardrail | 500 | $49.50 | | $ 24,750.00 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | Total | | | | $ 239,988.00 |
| | | **10% Contingency** | | | | $ 23,998.80 |
| | | **Total Requested** | | | | $ 263,986.80 |

Note:
Unit pricing above is taken from budget prices quoted to us by Steelco Fencing October 2017. Prices are good for a 12 month period.

## Framingham Park & Recreation Department

Appropriated

This method of payment will be per linear foot for fencing, and per each unit for posts and gates
This will include all excavation, concrete work, backfilling and grading necessary to complete work

| | ITEMS: | PRICE: |
|---|---|---|
| 1 | 48 Inch Chain Link Fence - to include end posts, corner posts & top & bottom rail | $51.50 |
| 2 | 60 Inch Chain Link Fence - to include end posts, corner posts, line posts & top & bottom rail | $53.75 |
| 3 | 72 Inch Chain Link Fence - to include end posts, corner posts, line posts & top & bottom rail | $73.60 |
| 4 | 96 Inch Chain Link Fence - to include end posts, corner posts, line posts & top & bottom rail | $84.50 |
| 5 | 12 Foot High Backstop - Backstops with canopy per unit installed | $17,350.00 |
| 6 | 16 Foot High Backstop - Backstops with canopy per unit installed | $25,250.00 |
| 7 | 20 Foot High Backstop - Backstops with canopy per unit installed | $35,225.00 |
| 8 | Wood Guard Rail - L.F. | $49.50 |
| 9 | 6 Inch Bollards - Ea. | $850.00 |
| 10 | Steel Leaf Gates 12' - per units installed | $10,950.00 |
| 11 | Steel Leaf Gates 14' - per units installed | $16,500.00 |
| | **FENCE REPAIR** | |
| 12 | Backstop Removal - Ea. | $2,250.00 |
| 13 | Remove & Repair 48" Terminal Posts | $85.00 |
| 14 | Remove & Repair 60" Terminal Posts | $99.80 |
| 15 | Remove & Repair 72" Terminal Posts | $162.50 |
| 16 | Remove & Repair 48" Line Posts | $57.75 |
| 17 | Remove & Repair 60" Line Posts | $66.00 |
| 18 | Remove & Repair 72" Line Posts | $73.50 |
| 19 | Remove & Repair 48" Fabric | $22.75 |
| 20 | Remove & Repair 60" Fabric | $23.75 |
| 21 | Remove & Repair 72" Fabric | $27.75 |
| 22 | Remove & Repair Top Rail - L.F. | $9.50 |
| 23 | Remove & Repair Bottom Rail - L.F. | $9.75 |
| 24 | 4 Foot High Walk Gates - with gate posts | $850.00 |
| 25 | 5 Foot High Walk Gates - with gate posts | $998.00 |
| 26 | 6 Foot High Walk Gates- with gate posts | $1,270.00 |
| 27 | 4 Foot High Double Gates - with gate posts | $1,700.00 |
| 28 | 5 Foot High Double Gates - with gate posts | $1,975.00 |
| 29 | 6 Foot High Double Gates- with gate posts | $2,255.00 |
| 30 | Demolition and Removal 4', 5', 6', 7', and 8' - L.F. | $9.00 |
| 31 | Domolition and Removal Wood Guard - L.F. | $8.00 |
| 32 | Clearing of Fence Lines - L.F. | $9.00 |

Updated 10/26/17 Dave Meleedy / Steelco Fence. Prices are good for a 12 months period.

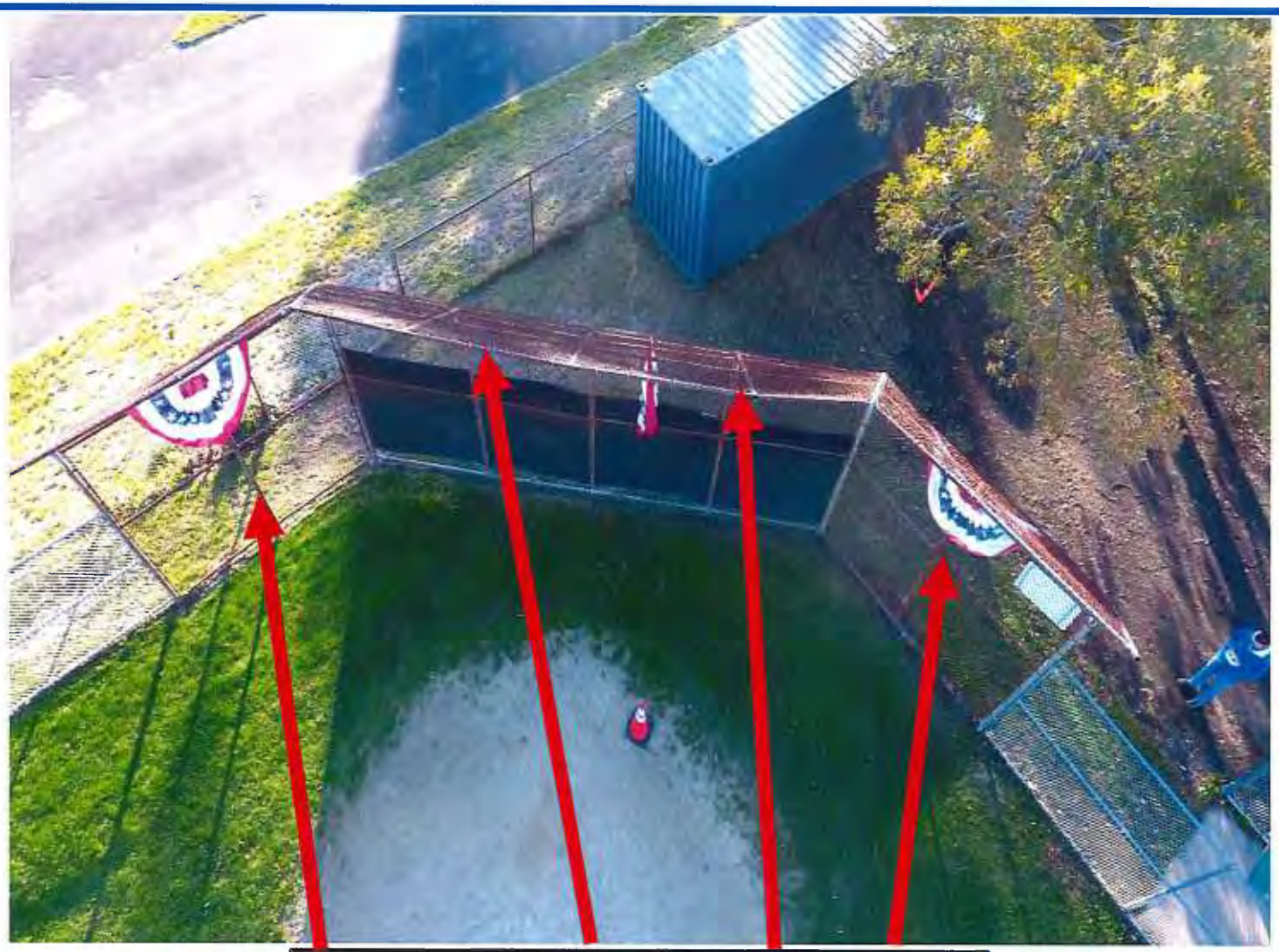
# Dunning Softball – District 2

Failing support rails; no safety netting;

Bowing and deteriorating support rails

Choose FRAMINGHAM

# Walsh Upper Softball – District 2



Deteriorating and failing backstop

Choose FRAMINGHAM

# Kellogg Street Canoe Launch – District 5

Lack of separation from designated parking area to park space

Choose FRAMINGHAM

# Winch Park – District 2

Lack of barrier between roadway and tennis court fencing/water supply

# Danforth Park – District 2

Aging, rotting and failing wooden guardrail system

# Cushing Park, Winter Street Entrance – District 6

Lack of guardrail leading to illegal parking and damage to grounds

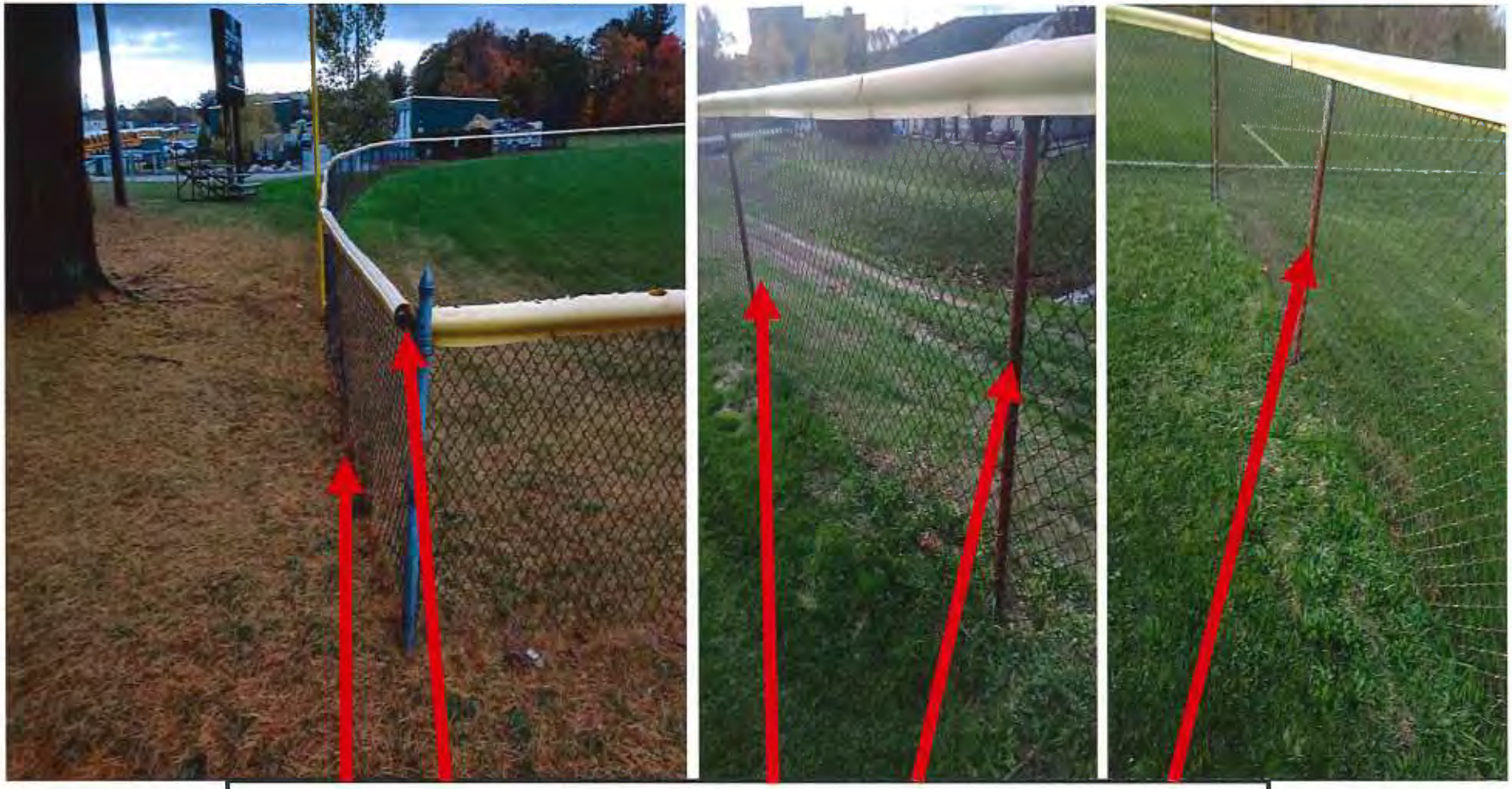
Choose FRAMINGHAM

# Longs Complex – Carter Field
# District 6

Deteriorating and failing fence line creating safety concerns

Choose FRAMINGHAM

# Longs Complex – Merloni Field
# District 6



Aging, deteriorating and failing fence line



Choose FRAMINGHAM

# Longs Complex – Tusoni Field
# District 6

Aging and deteriorating fence line requiring replacement

# Longs Complex – Upper Longs
# District 6

Aging and deteriorating guardrail fence line

Choose FRAMINGHAM

# FY2019 Requested: Bond $497,952

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Sewer/2019/B | **Budget Year:** | 2019 |
| **Project Title:** | Replace Vactor Truck, #741 | **Scenario:** | Main 2019 |
| **Asset Type:** | HEAVY DUTY TRUCKS | **Budget Status:** | Department Request |
| **Department:** | C2-440 - Sewer Enterprise | **Regions:** | |
| **Project Type:** | Water Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

- 2008, meter reading and backflow preventers, #704, $60,131
- 2008, meter reading and backflow preventers, #725, $60,131

## Comments:

Service performance, pride of service and community support are all emphasized by DPW, with vehicle cleanliness an important expression of those, and a responsibility of DPW staff.

## Justification:

All of the existing vehicles being replaced will have exceeded 10 years in service when replaced (and sold), and nearly all are near to or over 100,000 miles or run-hours equivalent. Industry and Framingham DPW experience indicates that above those thresholds maintenance increases substantially to assure service reliability, as do major repairs, none of which provide a return on investment, and they are not sustainable with the current DPW facility and staffing. In addition to daily service for the various Divisions, they all are used for the Department's snow and ice management program, with many also used to respond to community events and emergencies. Snow plowing is particularly destructive to vehicles.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 497,952 | 0 | 497,952 |
| | **497,952** | **0** | **497,952** |

# FY2019 Recommended: Retained Earnings $375,000

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Sewer/2019/C | **Budget Year:** | 2019 |
| **Project Title:** | Annual Various Sewer Improvements - 2019 | **Scenario:** | Main 2019 |
| **Asset Type:** | SEWER PROJECTS | **Budget Status:** | Department Request |
| **Department:** | C2-440 - Sewer Enterprise | **Regions:** | |
| **Project Type:** | Sewer Piping | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

**Description:**

Funding for the DPW to respond to unanticipated sewer system failures

**Comments:**

**Justification:**

Necessary infrastructure improvements

**Description:**

**Comments:**

**Project Forecast**

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 375,000 | 0 | 375,000 |
| | **375,000** | **0** | **375,000** |

# FY2019 Recommended: Retained Earnings $500,000

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Sewer/2019/D | **Budget Year:** | 2019 |
| **Project Title:** | Annual Sewer Pump Stations Eqpt Replacements - 2019 | **Scenario:** | Main 2019 |
| **Asset Type:** | WATER/SEWER PUMP STATIONS | **Budget Status:** | Department Request |
| **Department:** | C2-440 - Sewer Enterprise | **Regions:** | |
| **Project Type:** | Sewer Non-Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This appropriation will provide for the replacement and upgrades of equipment at older wastewater pumping stations. The project includes the planned replacement of pumps, motors, controls and others, as well as emergency replacements.

## Comments:

## Justification:

The lifespan and reliability of these stations can be extended a decade or more through the replacement of component parts as they become worn and inefficient, thereby reducing the near-term need for significant capital funds. For example, underground controls and Supervisory Control and Data Acquisition (SCADA) systems may be considered to be raised above ground for reduction of corrosion and for safety purposes.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 500,000 | 0 | 500,000 |
| | **500,000** | **0** | **500,000** |

# FY2019 Recommended: Bond $3,800,000

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Sewer/2019/E | **Budget Year:** | 2019 |
| **Project Title:** | Worcester Rd Sewer Mains (East of Concord St) – Ph I Construction, Phases II & III Design | **Scenario:** | Main 2019 |
| **Asset Type:** | SEWER LINES | **Budget Status:** | Department Request |
| **Department:** | C2-440 - Sewer Enterprise | **Regions:** | |
| **Project Type:** | Sewer Piping | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

The overall project is to line or replace water and sewer mains between Concord Street and the Natick town line, as well as the cross-country sewer connector that runs north from Worcester Road through Natick, terminating near Cochituate Road. This work is to be designed and constructed in three sections (I – Rt 9 eastbound lanes, including the Pierce and Dinsmore neighborhoods; II – Westbound lanes; III – north-south sewer connector), with this request for the construction of Phase I, and the final design of II and III.

## Comments:

Approval and coordination with MassDOT, particularly in minimizing traffic disruptions, and coordination with a large number of businesses and residences are important aspects of this multiple year construction project. Approval and coordination with the Framingham and Natick Conservation Commissions are needed for Phase III.

## Justification:

The need for this project are some undersized pipes, pipe age and materials, condition, and the consequences of their failure, with this investment increasing capacity, reliability and fire flow, and reducing maintenance costs. Most of this infrastructure is between 50 and 100 years old, and they serve major portions of Framingham's retail businesses, where emergency repairs and the disruption of service and traffic would be very costly. The cross-country connector traverses wetlands, which make maintenance access and emergency repairs extremely difficult, costly and damaging to the natural resources, especially during wet periods.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 3,800,000 | 0 | 3,800,000 |
| | **3,800,000** | **0** | **3,800,000** |

AECOM
250 Apollo Drive
Chelmsford, MA 01824
www.aecom.com

978 905 2100 tel
978 905 2101 fax

November 3, 2017

Mr. John H. Rogers
Director of Project Development and
Right of way Acquisition
Department of Public Works
110 Western Avenue
Framingham, MA 01702

RE: FY19 Planning Level Cost Estimate
Worcester Road Water and Sewer Mains (East of Concord St) –Phase I Construction, and Phases II and III Design

Dear Mr. Rogers:

This letter confirms the need for funding for the following project:

**Worcester Road Water and Sewer Mains (East of Concord St) –Phase I Construction, and Phases II and III Design**

| | | |
|---|---|---|
| Opinion of design and construction budget: | | $5,700,000 (water) |
| | | $3,800,000 (sewer) |
| | Total: | $9,500,000 |

Description:
This three-phased project will upgrade and improve the reliability of water and sewer systems on Worcester Road between Concord Street and the Natick town line. Sewers and water mains will be replaced or relined on Worcester Road itself, and the downstream sewer interceptor that currently runs northward through Natick and a major isolated wetland will be replaced with a new interceptor that runs along accessible roadways. This work will be designed and constructed in three sections: Phase I – Rt 9 eastbound lanes, including the Pierce and Dinsmore neighborhoods; Phase II – Westbound lanes; and Phase III – new rerouted sewer interceptor. The funding request is for the construction of Phase I, and the final design of Phases II and III.

Justification and Comments:
This project is needed because sewers and water mains are undersized and prone to failure as a result of their age and materials, and failures to infrastructure could cause major economic impacts to the businesses and residents in the service area. Most of this infrastructure is between 50 and 100 years old, and the service area includes major portions of Framingham's retail businesses and large apartment complexes, where emergency repairs and the disruption of service and traffic would be very costly and affect quality of the lives of many during outages. The cross-country connector traverses wetlands, which make maintenance access and emergency repairs very costly, extremely difficult, and potentially damaging to the natural resources, especially during wet periods.

This multi-year construction project requires approval and coordination with MassDOT, particularly in minimizing traffic disruptions, and coordination with a large number of businesses and residences. Phase III will require approval and coordination with the Framingham and Natick Conservation Commissions.

AECOM

Key Assets:

4,940 LF water main to be replaced
3,400 LF sewer main to be lined or replaced } Route 9 Eastbound (I)

4,240 LF water main to be replaced
2,000 LF sewer main to be lined or replaced } Route 9 Westbound (II)

5,200 LF north-south sewer connector to be replaced in more accessible alignment (III)

Please do not hesitate to contact me if you have any comments or questions.

Sincerely,

Joseph M. Boccadoro, P.E.
Project Manager
AECOM

# FY2019 Recommended: Bond $1,200,000

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Sewer/2019/F | **Budget Year:** | 2019 |
| **Project Title:** | Sewer Defects Repairs Ph 2 – Design and Construction | **Scenario:** | Main 2019 |
| **Asset Type:** | SEWER PROJECTS | **Budget Status:** | Department Request |
| **Department:** | C2-440 - Sewer Enterprise | **Regions:** | |
| **Project Type:** | Sewer Piping | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This work will continue Phase 1 (south of Waverly) implementation of “No Dig” lining repairs (aka trenchless), extending into the area between Waverly Street and Worcester Road/Route 9. Investigations and planning will also be performed for the necessary, and more expensive and disruptful “Dig” repairs in the Phases 1 and 2 areas, and a coordinated plan developed for implementing those repairs, likely as part of a Phase 3 Defects Repairs effort in FY2020.

## Comments:

This work, and the anticipated Phase 3 Defects Repairs may be performed as part of a distinct capital project, with other capital projects, by an On-call contractor, and/or by Operations staff.

## Justification:

Framingham has studied 50% of its sewer system focused on identifying high priority sewer repairs that would reduce infiltration, as well as extend the reliable service life of sewer system assets. Infiltration reduces the capacity for sewage flow, can result in back ups and overflows, and increases the billings from MWRA, which is based on total sewer flow from Framingham. Phase 1 repairs were implemented in late 2017 for defects at and south of Waverly Street, with only “No Dig” lining performed to date, since they could be implemented more rapidly, at less cost, and none of the surface disruptions with “Dig” repairs or replacements.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 1,200,000 | 0 | 1,200,000 |
| | **1,200,000** | **0** | **1,200,000** |

AECOM

AECOM
250 Apollo Drive
Chelmsford, MA 01824
www.aecom.com

978 905 2100 tel
978 905 2101 fax

November 7, 2017

Mr. John H. Rogers
Director of Project Development and
Right of way Acquisition
Department of Public Works
110 Western Avenue
Framingham, MA 01702

RE: FY19 Planning Level Cost Estimate
Sewer Defects Repairs Phase 2 – Design and Construction

Dear Mr. Rogers:

This letter confirms the need for funding for the following project:

**Sewer Defects Repairs Phase 2 – Design and Construction**

Opinion of design and construction budget: $1,200,000 (sewer)

Description: This work will continue Phase 1 (south of Waverly) implementation of "No Dig" lining repairs (aka trenchless), extending into the area between Waverly Street and Worcester Road/Route 9. Investigations and planning will also be performed for the necessary, and more expensive and disruptful "Dig" repairs in the Phases 1 and 2 areas, and a coordinated plan developed for implementing those repairs, likely as part of a Phase 3 Defects Repairs effort in FY2020.

Justification and Comments: Framingham has studied 50% of its sewer system focused on identifying high priority sewer repairs that would reduce infiltration, as well as extend the reliable service life of sewer system assets. Infiltration reduces the capacity for sewage flow, can result in back ups and overflows, and increases the billings from MWRA, which is based on total sewer flow from Framingham. Phase 1 repairs were implemented in late 2017 for defects at and south of Waverly Street, with only "No Dig" lining performed to date, since they could be implemented more rapidly, at less cost, and none of the surface disruptions with "Dig" repairs or replacements.

This work, and the anticipated Phase 3 Defects Repairs may be performed as part of a distinct capital project, with other capital projects, by an On-call contractor, and/or by Operations staff.

Key Assets:5,000 LF of sewer main rehabilitated (lined).

Please do not hesitate to contact me if you have any comments or questions.

Sincerely,

Joseph M. Boccadoro, P.E.
Project Manager
AECOM

# FY2019 Recommended: Bond $1,650,000

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Sewer/2019/G | **Budget Year:** | 2019 |
| **Project Title:** | Woodland Sewer Forcemain Replacement - Construction | **Scenario:** | Main 2019 |
| **Asset Type:** | SEWER PROJECTS | **Budget Status:** | Department Request |
| **Department:** | C2-440 - Sewer Enterprise | **Regions:** | |
| **Project Type:** | Sewer Piping | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This project is for the replacement of 1,800 feet of aged sewer force main from the Woodland Pump Station through wetlands and under the Mass Pike.

## Comments:

## Justification:

Pipes downstream of sewer pump stations have increased risk of failure and need for maintenance, wetlands are a common source of infiltration into pipes, and a failure under the highway could be catastrophic. Replacement of this 60 year old asbestos cement pipe will address these issues and provide reliable service for many decades. This project was deferred from the FY2018 requests.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 1,650,000 | 0 | 1,650,000 |
| | **1,650,000** | **0** | **1,650,000** |

## Project Details 2019

| Object | Description | | Total Amount |
|---|---|---|---|
| **Expense** | | | |
| 34405006-58300 | Improvements | | 1,650,000 |
| | | **Total Expense:** | **1,650,000** |

## Related Projects

## Operating Budget Impact

| Budget Year | Exp (Rev) | FTE Impact |
|---|---|---|

**Stantec Consulting Services Inc.**
5 Burlington Woods Drive
Burlington, MA 01803
Tel: (978) 692-1913
Fax: (978) 692-4578

November 14, 2016

**Ms. Vonnie M. Reis, P.E.**
**Director of Capital Projects**
**Framingham Department of Public Works**
**110 Western Avenue**
**Framingham, MA 01702**

**Reference: Woodland PS Force Main Realignment Project**
**Annual Town Meeting Funding Request**

Dear Ms. Reis:

In conjunction with the preliminary engineering services for the Woodland Pump Station Force Main Realignment project under Task Order #7 of our MSA with the Framingham DPW, Stantec prepared a Preliminary Opinion of Probable Construction Cost. This letter serves as backup for the Annual Town Meeting funding appropriation on the total project.

The Woodland PS Force Main Realignment will eliminate the crossing of the existing 10" asbestos cement (AC) force under the MassPike and replace it with a new 10" PVC pressure pipeline that will start at the Woodland Pump Station and proceed along the northern side of the MassPike right-of-way (off the travel way) to the intersection with Edgell Road for a distance of approximately 1,100 feet. The proposed new force main would then turn south on Edgell Road crossing under the MassPike overpass for an approximate distance of 700 feet to connect back into the existing 10" AC force main.

This project will address the Town's goals of improvements to public infrastructure and protection of the environment. The existing 10" AC force main has experienced a collapse requiring emergency repairs be made. Since the force main crosses under the MassPike, access for maintenance and repairs is very limited making it difficult to address future problems that may arise. The deteriorating condition of the AC pipe also increases the risk of releasing raw sewage to the nearby stream and wetlands should another failure occur. The proposed replacement PVC force main provides much improved access and protection against pipe failure and release to the environment.

We recommend a total appropriation for the project of **$1,735,000**.

Reference: Woodland PS Force Main Realignment Project
Annual Town Meeting Funding Request

Please feel free to contact me if you have any questions regarding this project and development of the total project costs.

Sincerely,

John E. Murphy, P.E., BCEE
Senior Associate
Phone: (978) 577-1407
Cell: (617)413-1755
john.murphy@stantec.com

# FY2019 Recommended: Bond $2,100,000

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Sewer/2019/H | **Budget Year:** | 2019 |
| **Project Title:** | Lanewood Siphon Replacement - Construction | **Scenario:** | Main 2019 |
| **Asset Type:** | SEWER PROJECTS | **Budget Status:** | Department Request |
| **Department:** | C2-440 - Sewer Enterprise | **Regions:** | |
| **Project Type:** | Sewer Piping | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This project will construct a replacement siphon in a jacked steel casing pipe under the aqueduct that meets current design standards, including redundancy and improved access for maintenance. It will also provide for a future non-siphon (gravity) configuration if the sewer elevation is lowered on Waveney and Pleasant Streets.

## Comments:

The work will conform to recent area roadway improvements.

## Justification:

The existing single barrel siphon under the MWRA Weston Aqueduct has inadequate access for maintenance and does not meet current design standards for inverted sewer siphons, requiring frequent bypass pumping and maintenance in order to assure flow from 500 homes and prevent sewer backups. This project was deferred from the FY2018 requests.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 2,100,000 | 0 | 2,100,000 |
| | **2,100,000** | **0** | **2,100,000** |

Environmental Partners GROUP
A partnership for engineering solutions.

November 6, 2017

Ms. Julie Liu, P.E.
Senior Project Manager
Town of Framingham Department of Public Works
110 Western Avenue
Framingham, MA 01702

**RE: FY 19 Funding Article for Lanewood Avenue Siphon Replacement - Construction**

Dear Ms. Liu:

This letter confirms the need for $2,100,000 in funding for the Lanewood Avenue Siphon Replacement Project. This project will construct a replacement siphon in a jacked steel casing pipe under the Weston Aqueduct that meets current design standards, including redundancy and improved access for maintenance. It will also provide for a future non-siphon (gravity) configuration if the sewer elevation is lowered on Waveney and Pleasant Streets. Additional project work will include abandonment of the existing sewer siphon, bypass sewer pumping, and restoration of the project area.

The existing siphon is poorly constructed and lacks adequate access for routine maintenance. A failure of the siphon would result in a loss of sewer service to more than 500 Framingham sewer users. The siphon is a single barrel and design standards require a double barrel siphon to provide a second pipe for inspection and cleaning, as well as for its location underneath an MWRA aqueduct.

The Key Assets are:
300 LF of sewer main to be replaced
300 LF roadway to be rehabbed or replaced

Very truly yours,

**ENVIRONMENTAL PARTNERS GROUP, INC.**

Ryan Allgrove

Ryan J. Allgrove, P.E.
Project Manager

# FY2019 Recommended: Retained Earnings $72,153

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Water/2019/B | **Budget Year:** | 2019 |
| **Project Title:** | Replace Water Dump Truck, #626 | **Scenario:** | Main 2019 |
| **Asset Type:** | DUMP TRUCKS | **Budget Status:** | Department Request |
| **Department:** | C1-450 - Water Enterprise | **Regions:** | |
| **Project Type:** | Water Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

**Description:**

Replace Water Dump Truck, #626

**Comments:**

Service performance, pride of service and community support are all emphasized by DPW, with vehicle cleanliness an important expression of those, and a responsibility of DPW staff.

**Justification:**

All of the existing vehicles being replaced will have exceeded 10 years in service when replaced (and sold), and nearly all are near to or over 100,000 miles or run-hours equivalent. Industry and Framingham DPW experience indicates that above those thresholds maintenance increases substantially to assure service reliability, as do major repairs, none of which provide a return on investment, and they are not sustainable with the current DPW facility and staffing. In addition to daily service for the various Divisions, they all are used for the Department's snow and ice management program, with many also used to respond to community events and emergencies. Snow plowing is particularly destructive to vehicles.

**Description:**

**Comments:**

**Project Forecast**

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 72,153 | 0 | 72,153 |
| | **72,153** | **0** | **72,153** |

MHQ
VEHICLES ■ EQUIPMENT ■ GEAR

# QUOTE

## CUSTOMER

| | | | |
|---|---|---|---|
| Contact Name: | Fred Davies | Date: | 10/30/2017 |
| Company/Dept: | Town of Framingham Department of Public Works | Valid for: | 60 Days* |
| Street Address: | 100 Western Ave. | Customer #: | 10141 |
| City, State, Zip: | Framingham, MA 01702 | Contract: | GBPC/BAPERN 2015 |
| Phone: | 508-532-6070 | Sales Rep: | Greg Keith |
| E-Mail: | fjd@framinghamma.gov | | |

| CONTRACT LINE REFERENCE | LINE DESCRIPTION | UNIT PRICE | QTY. | EXTENDED PRICE |
|---|---|---|---|---|
| | | | | |
| F5H | 2018 F550 Chassis 4X4 Regular Cab 145" wb, 60" CA 18,000#GVWR | | | |
| | V10 gasoline engine | | | |
| SP101 | Factory Special Paint, W6695F Yellow | | | |
| | Four Wheel Drive with manual locking hubs | | | |
| | Automatic Transmission | | | |
| | HD vinyl bench seat, HD vinyl flooring, spare tire | | | |
| | AM/FM radio with digital clock | | | |
| | Factory upfitter switches | | | |
| | Spare tire on wheel | | | |
| 43C | 110V/400 Watt Power Outlet (1) | | | |
| 473 | Factory Snow Plow Prep | | | |
| X8L | 4:88 limited slip rear axle | | | |
| 62R | Transmission PTO provision | | | |
| 52B | Trailer brake controller | | | |
| 18B | Black molded running boards factory installed RC | | | |
| TGB | 225/70RX19.5 BSW Traction Tires, Front & Rear | | | |
| 68U | 19,000 Lb. GVWR Payload Upgrade, 60" CA Gas only | | | |
| 2.05 | Diamond/Meyer 9' snow plow w/ poly foil and steel bolt on edge | | | |
| 4.03 | Transmission PTO driven central hydraulic system | | | |
| 5.03 | 3 to 4 cubic yard crossmemberless dump body with 3/16" Hardox floor | | | |
| 5.06 | Tailgate asphalt chute | | | |
| | Front bulkhead with corner goal posts - no cab shield - 2" above cab | | | |
| 5.13 | Oak side boards (2"x 8"- Light Duty) | | | |
| 5.42 | Manually retracted asphalt canvas load cover | | | |
| 7.01 | 30" stainless steel under body toolbox | | | |
| 7.02 | Poly rear fenders, frame mounted (Light Duty Chassis) | | | |
| 7.07 | Reinforced plate mounted ball and pintle hook combination | | | |
| 7.05 | Trailer plug, wired with 6-pin round adapter | | | |
| N/A | Driver's door mounted incandescent spotlight | | | |
| N/A | Led taillights | | | |
| N/A | Undercoat dump body | | | |
| N/A | Mobile radio | | | |
| N/A | Emergency/safety lights | | | |
| | | | TAX: | |
| | | | **TOTAL:** | **$72,153.00** |

# FY2019 Recommended: Retained Earnings $350,000

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Water/2019/C | **Budget Year:** | 2019 |
| **Project Title:** | Annual Various Water Improvements Project - 2019 | **Scenario:** | Main 2019 |
| **Asset Type:** | WATER PROJECTS | **Budget Status:** | Department Request |
| **Department:** | C1-450 - Water Enterprise | **Regions:** | |
| **Project Type:** | Water Piping | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

**Description:**

Funding for the DPW to respond to unanticipated water system failures

**Comments:**

**Justification:**

Necessary infrastructure improvements

**Description:**

**Comments:**

**Project Forecast**

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 350,000 | 0 | 350,000 |
| | **350,000** | **0** | **350,000** |

# FY2019 Recommended: Bond $250,000

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Water/2019/D | **Budget Year:** | 2019 |
| **Project Title:** | Annual Various Hydrant and Valve Improvements Project - 2019 | **Scenario:** | Main 2019 |
| **Asset Type:** | HYDRANTS | **Budget Status:** | Department Request |
| **Department:** | C1-450 - Water Enterprise | **Regions:** | |
| **Project Type:** | Water Piping | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

**Description:**

For the timely repair of water system infrastructure.

**Comments:**

**Justification:**

Necessary infrastructure improvements.

**Description:**

**Comments:**

**Project Forecast**

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 250,000 | 0 | 250,000 |
| | **250,000** | **0** | **250,000** |

# FY2019 Requested: Deferred to FY2020 or beyond

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Water/2019/E | **Budget Year:** | 2019 |
| **Project Title:** | Worcester Road Water Main Rehabilitation, Concord Rd to Natick line - Construction | **Scenario:** | Main 2019 |
| **Asset Type:** | WATER - MAINS | **Budget Status:** | Department Request |
| **Department:** | C1-450 - Water Enterprise | **Regions:** | |
| **Project Type:** | Water Piping | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

The overall project is to line or replace water and sewer mains between Concord Street and the Natick town line, as well as the cross-country sewer connector that runs north from Worcester Road through Natick, terminating near Cochituate Road. This work is to be designed and constructed in three sections (I – Rt 9 eastbound lanes, including the Pierce and Dinsmore neighborhoods; II – Westbound lanes; III – north-south sewer connector), with this request for the construction of Phase I, and the final design of II and III.

## Comments:

See related sewer main project.
Approval and coordination with MassDOT, particularly in minimizing traffic disruptions, and coordination with a large number of businesses and residences are important aspects of this multiple year construction project. Approval and coordination with the Framingham and Natick Conservation Commissions are needed for Phase III.

## Justification:

The need for this project are some undersized pipes, pipe age and materials, condition, and the consequences of their failure, with this investment increasing capacity, reliability and fire flow, and reducing maintenance costs. Most of this infrastructure is between 50 and 100 years old, and they serve major portions of Framingham's retail businesses, where emergency repairs and the disruption of service and traffic would be very costly. The cross-country connector traverses wetlands, which make maintenance access and emergency repairs extremely difficult, costly and damaging to the natural resources, especially during wet periods.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 5,700,000 | 0 | 5,700,000 |
| | **5,700,000** | **0** | **5,700,000** |

AECOM
250 Apollo Drive
Chelmsford, MA 01824
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978 905 2100 tel
978 905 2101 fax

November 3, 2017

Mr. John H. Rogers
Director of Project Development and
Right of way Acquisition
Department of Public Works
110 Western Avenue
Framingham, MA 01702

RE: FY19 Planning Level Cost Estimate
Worcester Road Water and Sewer Mains (East of Concord St) –Phase I Construction, and Phases II and III Design

Dear Mr. Rogers:

This letter confirms the need for funding for the following project:

**Worcester Road Water and Sewer Mains (East of Concord St) –Phase I Construction, and Phases II and III Design**

| | | |
|---|---|---|
| Opinion of design and construction budget: | | $5,700,000 (water) |
| | | $3,800,000 (sewer) |
| | Total: | $9,500,000 |

Description:
This three-phased project will upgrade and improve the reliability of water and sewer systems on Worcester Road between Concord Street and the Natick town line. Sewers and water mains will be replaced or relined on Worcester Road itself, and the downstream sewer interceptor that currently runs northward through Natick and a major isolated wetland will be replaced with a new interceptor that runs along accessible roadways. This work will be designed and constructed in three sections: Phase I – Rt 9 eastbound lanes, including the Pierce and Dinsmore neighborhoods; Phase II – Westbound lanes; and Phase III – new rerouted sewer interceptor. The funding request is for the construction of Phase I, and the final design of Phases II and III.

Justification and Comments:
This project is needed because sewers and water mains are undersized and prone to failure as a result of their age and materials, and failures to infrastructure could cause major economic impacts to the businesses and residents in the service area. Most of this infrastructure is between 50 and 100 years old, and the service area includes major portions of Framingham's retail businesses and large apartment complexes, where emergency repairs and the disruption of service and traffic would be very costly and affect quality of the lives of many during outages. The cross-country connector traverses wetlands, which make maintenance access and emergency repairs very costly, extremely difficult, and potentially damaging to the natural resources, especially during wet periods.

This multi-year construction project requires approval and coordination with MassDOT, particularly in minimizing traffic disruptions, and coordination with a large number of businesses and residences. Phase III will require approval and coordination with the Framingham and Natick Conservation Commissions.

AECOM

Key Assets:

4,940 LF water main to be replaced
3,400 LF sewer main to be lined or replaced } Route 9 Eastbound (I)

4,240 LF water main to be replaced
2,000 LF sewer main to be lined or replaced } Route 9 Westbound (II)

5,200 LF north-south sewer connector to be replaced in more accessible alignment (III)

Please do not hesitate to contact me if you have any comments or questions.

Sincerely,

Joseph M. Boccadoro, P.E.
Project Manager
AECOM

# FY2019 Requested: Deferred to FY2020 or beyond

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Sewer/2019/A | **Budget Year:** | 2019 |
| **Project Title:** | Replace 2 Sewer Rack/body/utility Trucks, #704 and 725 | **Scenario:** | Main 2019 |
| **Asset Type:** | PICK UP TRUCKS | **Budget Status:** | Department Request |
| **Department:** | C2-440 - Sewer Enterprise | **Regions:** | |
| **Project Type:** | Water Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

- 2008, meter reading and backflow preventers, #704, $60,131
- 2008, meter reading and backflow preventers, #725, $60,131

## Comments:

Service performance, pride of service and community support are all emphasized by DPW, with vehicle cleanliness an important expression of those, and a responsibility of DPW staff.

## Justification:

All of the existing vehicles being replaced will have exceeded 10 years in service when replaced (and sold), and nearly all are near to or over 100,000 miles or run-hours equivalent. Industry and Framingham DPW experience indicates that above those thresholds maintenance increases substantially to assure service reliability, as do major repairs, none of which provide a return on investment, and they are not sustainable with the current DPW facility and staffing. In addition to daily service for the various Divisions, they all are used for the Department's snow and ice management program, with many also used to respond to community events and emergencies. Snow plowing is particularly destructive to vehicles.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 120,262 | 0 | 120,262 |
| | **120,262** | **0** | **120,262** |

# FY2019 Requested: Deferred to FY2020 or beyond

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Sewer/2019/I | **Budget Year:** | 2019 |
| **Project Title:** | Arlington Street Area Infrastructure Phases 1 and 1B - Design | **Scenario:** | Main 2019 |
| **Asset Type:** | SEWER LINES | **Budget Status:** | Department Request |
| **Department:** | C2-440 - Sewer Enterprise | **Regions:** | |
| **Project Type:** | Sewer Piping | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This funding request is for neighborhood-wide concept design, final design of a first phase of construction, and 60% design of a second phase, which will begin neighborhood and property owner consultation; refine, validate and document project criteria; and identify detailed construction costs and next steps.

## Comments:

In addition to addressing the condition of infrastructure, the repairs, replacements and improvements will enhance this residential and small businesses neighborhood immediately south of Downtown.

## Justification:

Most infrastructure in this neighborhood is in a state of disrepair or inadequacy, including many water mains that are over 100 years old and have fire flow concerns, frequent flooding due to very little drainage infrastructure, with many roads and sidewalks in very poor condition, and without disability accessibility. This project proposes to address these needs in an affordable multiphase implementation that will also reduce disruption to residents, businesses and through-traffic. This project was deferred from the FY2018 request.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 90,000 | 0 | 90,000 |
| | **90,000** | **0** | **90,000** |

November 3, 2017

John H. Rogers
Director of Project Development and Right of Way Acquisition
Town of Framingham – Department of Public Works
110 Western Avenue, Framingham, MA 01702

Re: Arlington Street Area Infrastructure Phases 1 and 1B Design

Mr. Rogers,

This letter confirms the need for $520,000 from the General Fund, and $90,000 from/for Sewer in funding for the following project:

**Project**
Arlington Street Area Infrastructure Phases 1 and 1B – Design

**Summary Description:**
Investigations into the replacement of the ca. 1885 water main in Arlington Street revealed the need to replace not only that water main, but sewer mains also, and almost all other key infrastructure assets in the vicinity. It's now been determined that most infrastructure in the South Framingham neighborhoods bound by Hollis Street, Irving Street, Beaver Dam Brook, and the southern CSX rail yard are in various states of disrepair or inadequacy, including other water mains with reduced fire flow and a high risk of breaks. Addressing them all in a coordinated fashion will reduce the total cost, including for emergency repairs.

Noteworthy in the area is the inadequate and poor condition of drainage systems, both on and serving private development, and the very limited amount of roadway drainage, resulting in frequent flooding at a number of locations. Though no direct damage appears to be a result of that flooding, poor roadway drainage commonly shortens the life of pavement. Also, apparent solutions to the flooding will require excavation alongside, over and under water and sewer lines, with a least total cost solution likely involving adjustments of one or more of the other infrastructure in the area, particularly in the relatively narrow roads where new gas lines were installed in 2016.

Numerous high priority sewer defects have been identified in this area, with cracks, breaks, gaps and infiltration into the pipes and manholes. In addition to the cost of conveying and treating infiltrating water, these conditions are indicative of a high risk of failure, and the need for greater maintenance due to roots, debris and other clogging.

Existing roads in the vicinity range from good to very poor condition (Pratt, Campbell and Hearth), with nearly all sidewalks in at least poor condition. As with many areas in Framingham, there are also many barriers to ADA accessibility.

Engineers | Scientists | Planners | Designers

101 Walnut Street
PO Box 9151
Watertown, Massachusetts 02471
P 617.924.1770
F 617.924.2286

A September 2017 "Arlington Street Improvements Study Report" evaluated and provided recommendations to improve drainage, reduce stormwater flooding, and a plan to repair or replace aging infrastructure such as water and sewer systems, pavement, curbs and sidewalks in the Project area. The study report included:

- Identification of a preferred alternative
- Phasing analysis
- Construction cost estimate
- Recommendations for next steps

The study recommended the project include three (3) construction phases to minimize disturbance to residents, businesses and through traffic, and allow the Town to budget for construction over multiple years. Recommendations for next steps included:

- Concept design of the entire area
- Design of phase 1 of the project to bid documents
- Design of drainage upgrades upstream of phase 1 to 60% design (referred to as Phase 1B)
- Additional hydrologic/hydraulic analysis to estimate impacts on Beaver Dam Brook

**Justification:**
Most infrastructure in this neighborhood is in a state of disrepair or inadequacy, including many water mains that are over 100 years old and have fire flow concerns, frequent flooding due to very little drainage infrastructure, with many roads and sidewalks in very poor condition, and without disability accessibility. This project proposes to address these needs in an affordable multiphase implementation that will also reduce disruption to residents, businesses and through-traffic. This project was deferred from the FY2018 request.

**Key Assets (Phase 1 and 1B):**
6,900 LF roadway to be rehabbed or replaced
14,000 LF sidewalk to be replaced or improved
5,200 LF drain pipes to be new (most), rehabbed or replaced
4,500 LF sewer main to be lined or replaced
4,500 LF water main to be replaced, with some potentially lined

If you should have any questions or require additional information please feel free to call me at 617-607-2766.

Sincerely,

Mark Costa

Project Manager
Markcosta@vhb.com

Tracie Lenhardt

Senior Project Manager
Tlenhardt@vhb.com

October 26, 2016

Ref: 13484.07

Mr. Eric Johnson
Town Engineer
Framingham Dept of Public Works
110 Western Avenue
Framingham, MA 01702

Re: FY-2018 Capital Improvements
Arlington Street Road Area, Sidewalk and Stormwater Improvements - Design

Mr. Johnson,

VHB has prepared this letter to provide a description and cost estimate for the design efforts required for sidewalk and storm water improvements in the Arlington Street area.

The South Framingham neighborhoods bound by Hollis Street, Irving Street, Beaver Dam Brook, and the southern CSX rail yard includes infrastructure in various states of disrepair. This area contains some of the oldest water pipes some in Town. Replacement is need to both mitigate the high risk of water main breaks and to improve fire flow. The area also suffers from inadequate storm water collection and disposal infrastructure, and the adjacencies among all of the subsurface utility infrastructure support a program to replace all needed elements together.

Initial analysis will be performed to identify storm drain improvements needed in the area, and the project will develop the potential/likely phased implementation of water, sewer, road, storm and sidewalk improvements (likely in 3 to 5 phases/years), with goals of addressing them all in a least-cost and least disruptive manner to residents, businesses and through-traffic. The project will include the design and associated survey of a first phase of infrastructure improvements in the Arlington Street.

This project follows the principle of renewing aged sub-surface utilities, while making needed roadway and sidewalk improvements, in a way that minimized total capital cost as well as limiting disruption to residents, businesses and traffic.

The total cost associated with the design of Arlington Street sidewalk and storm water improvements is estimated to be $350,000.

Engineers | Scientists | Planners | Designers

101 Walnut Street
PO Box 9151
Watertown, Massachusetts 02471
P 617.924.1770
F 617.924.2286

If you have any questions, or require additional information, please do not hesitate to contact me.

Sincerely,

Vanasse Hangen Brustlin, Inc.

Caroline Hampton

Caroline Hampton, P.E.

Senior Project Manager

# FY2019 Requested: Deferred to FY2020 or beyond

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Sewer/2019/J | **Budget Year:** | 2019 |
| **Project Title:** | Central Street Corridor Sewer Mains - Design | **Scenario:** | Main 2019 |
| **Asset Type:** | SEWER PROJECTS | **Budget Status:** | Department Request |
| **Department:** | C2-440 - Sewer Enterprise | **Regions:** | |
| **Project Type:** | Sewer Piping | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This project is for investigations and design of the replacement and lining of aged and distressed sewer mains along the Central Street corridor (Highgate to Purchase). Existing sections across private properties and along the river shoreline will be relocated to the road right of way wherever reasonable. Investigations will be performed on the sewer lines discharging into this main, particularly those that are asbestos cement pipe (ACP), or are suspected to be large infiltration or inflow sources.

## Comments:

Much of the investigations and survey can and will be used for the water mains in the corridor (design funding authorized at the 2017 ATM, with that survey also used for the anticipated future road design). A significant amount of ACP is likely to be removed.

## Justification:

In addition to their age and extensive sections observed to be in poor condition, with likely infiltration and high risk of failures and back ups, annual jetting and root intrusion treatment are required to assure function, with access for that work made difficult and costly where on private properties and along the shoreline. This project was deferred from the FY2018 requests.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 800,000 | 0 | 800,000 |
| | **800,000** | **0** | **800,000** |

AECOM

AECOM
250 Apollo Drive
Chelmsford, MA 01824
www.aecom.com

978 905 2100 tel
978 905 2101 fax

November 7, 2017

Mr. John H. Rogers
Director of Project Development and
Right of way Acquisition
Department of Public Works
110 Western Avenue
Framingham, MA 01702

RE: FY19 Planning Level Cost Estimate
Central Street Corridor Sewer Main – Design

Dear Mr. Rogers:

This letter confirms the need for funding for the following project:

**Central Street Corridor Sewer Main - Design**

Opinion of design budget: $800,000 (sewer).

Description: This project is for investigations and design of the replacement and lining of aged and distressed sewer mains along the Central Street corridor (Highgate to Purchase). Existing sections across private properties and along the river shoreline will be relocated to the road right of way wherever reasonable. Investigations will be performed on the sewer lines discharging into this main, particularly those that are asbestos cement pipe (ACP), or are suspected to be large infiltration or inflow sources.

Justification and Comments: In addition to their age and extensive sections in poor condition, with likely infiltration and high risk of failures and back ups, annual jetting and root intrusion treatment are required to assure function, with access for that work made difficult and costly where on private properties and along the shoreline. *This project was deferred from the FY2018 requests.*

Much of the investigations and survey can and will be used for the water mains in the corridor (design funding authorized at the 2017 ATM, with some also used for the anticipated future road design. A significant amount of ACP is likely to be removed.

Key Assets: 8,000 LF sewer main replacement or lining

Please do not hesitate to contact me if you have any comments or questions.

Sincerely,

Joseph M. Boccadoro, P.E.
Project Manager
AECOM

# FY2019 Requested: Deferred to FY2020 or beyond

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Sewer/2019/K | **Budget Year:** | 2019 |
| **Project Title:** | Pleasant Street Area Sewers and Pump Stations Study & Design | **Scenario:** | Main 2019 |
| **Asset Type:** | WATER/SEWER PUMP STATIONS | **Budget Status:** | Department Request |
| **Department:** | C2-440 - Sewer Enterprise | **Regions:** | |
| **Project Type:** | Sewer Non-Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This study and preliminary design is expected to result in the replacement of 2 small and outdated pump stations (Flanagan and McQuinn) with deep gravity sewers, and the needed improvements to the downstream Pleasant Street station, as well as the replacement or lining of 2 miles of sewer, and the removal of 1,100 feet of asbestos cement pipe (ACP).

## Comments:

See the related water mains project. Increased cost efficiencies will result when sharing surveyed basemapping, and designing needed water main replacements in the same sections of roads.

## Justification:

All 3 pump stations are in need of overhaul or replacement, as are many of the sewer mains, and a 2016 study indicates the cost effectiveness of this plan, with further investigation and refined study to confirm or modify that, and provide direction for the subsequent design. The Lanewood Avenue siphon under the MWRA aqueduct that is downstream of McQuinn could be eliminated also, further reducing maintenance needs and the risk of back ups.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 400,000 | 0 | 400,000 |
| | **400,000** | **0** | **400,000** |

# FY2019 Requested: Deferred to FY2020 or beyond

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Water/2019/A | **Budget Year:** | 2019 |
| **Project Title:** | Replace 4 Water Rack/body/utility Trucks, #615, 616, 617 and 623 | **Scenario:** | Main 2019 |
| **Asset Type:** | PICK UP TRUCKS | **Budget Status:** | Department Request |
| **Department:** | C1-450 - Water Enterprise | **Regions:** | |
| **Project Type:** | Water Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

- 2008, for utility locates, #615, $60,131
- 2008, main repairs, #616, $60,131
- 2008, meter reading and backflow preventers, #617, $60,131
- 2008, first response support, #623, $60,131

## Comments:

Service performance, pride of service and community support are all emphasized by DPW, with vehicle cleanliness an important expression of those, and a responsibility of DPW staff.

## Justification:

All of the existing vehicles being replaced will have exceeded 10 years in service when replaced (and sold), and nearly all are near to or over 100,000 miles or run-hours equivalent. Industry and Framingham DPW experience indicates that above those thresholds maintenance increases substantially to assure service reliability, as do major repairs, none of which provide a return on investment, and they are not sustainable with the current DPW facility and staffing. In addition to daily service for the various Divisions, they all are used for the Department's snow and ice management program, with many also used to respond to community events and emergencies. Snow plowing is particularly destructive to vehicles.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 240,524 | 0 | 240,524 |
| | **240,524** | **0** | **240,524** |

MHQ VEHICLES ■ EQUIPMENT ■ GEAR

# QUOTE

## CUSTOMER

| | | | |
|---|---|---|---|
| Contact Name: | Fred Davies | Date: | October 25, 2017 |
| Company/Dept: | Town of Framingham Department of Public Works | Valid for: | 60 Days* |
| Street Address: | 100 Western Ave. | Customer #: | 10141 |
| City, State, Zip: | Framingham, MA 01702 | Contract: | GBPC/BAPERN 201 |
| Phone: | 508-532-6070 | Sales Rep: | Greg Keith |
| E-Mail: | fjd@framinghamma.gov | | |

| CONTRACT LINE REFERENCE | LINE DESCRIPTION | | | |
|---|---|---|---|---|
| | | | | |
| F3F | 2018 Ford F350 SRW 4x4 cab chassis regular cab | | | |
| | 141" wheel base - 60" cab to axle | | | |
| | 6.2 liter V/8 gasoline engine | | | |
| | 6 speed automatic transmission | | | |
| | AM/FM stereo w/ clock | | | |
| | Spare tire on wheel | | | |
| 43C | 110V/400 Watt Power Outlet (1) | | | |
| LS | 40/MINI CONSOLE/40 vinyl seat (required for 43C) | | | |
| 473 | Snow Plow prep package | | | |
| 59H | Center high mount stop lamp | | | |
| | Factory upfitter switches | | | |
| 213 | Electronic shift on the fly four wheel drive | | | |
| 531 | Trailer tow package | | | |
| 18B | Factory cab steps - RC | | | |
| 90L | Heated mirrrors, power windows & door locks - | | | |
| SP101 | Factory special paint W6695F Yellow | | | |
| 2.04 | 8' Diamond/Meyer snow plow package | | | |
| | 8' Diamond/Meyer poly snow foil | | | |
| | 8' Diamond/Meyer cutting edge | | | |
| TDX | LT275/75RX18 BSW all terrain tires | | | |
| 64F | 18" heavy duty steel wheels | | | |
| N/A | Driver's door mounted incandescent spotlight | | | |
| 8.32 | 9' Fiberglass utility body - Yellow Gel Coat finish | | | |
| | Mobile Radio | | | |
| | Emergency/safety lights | | | |
| | | **TOTAL** | | **$60,131.00** |
| | | | | |

# FY2019 Requested: Deferred to FY2020 or beyond

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Water/2019/F | **Budget Year:** | 2019 |
| **Project Title:** | Hollis Street (Barbieri) Water System Redundancy – Design and Construction | **Scenario:** | Main 2019 |
| **Asset Type:** | WATER - MAINS | **Budget Status:** | Department Request |
| **Department:** | C1-450 - Water Enterprise | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This project will provide a 2,800 foot new water main from Bates Road Extension to Thayer Street, using the existing sewer easement on CSX property and another that extends east from Thayer Street.

## Comments:

## Justification:

Currently, a single 8-inch cast iron water main installed in 1910 feeds the entire neighborhood. Providing a redundant water service (loop) to the neighborhood east of Waushakum Pond, at the Ashland town line, will reduce risks associated with potential failure of the water main on Hollis Street and will improve water quality.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 1,325,000 | 0 | 1,325,000 |
| | **1,325,000** | **0** | **1,325,000** |

AECOM
250 Apollo Drive
Chelmsford, MA 01824
www.aecom.com

978 905 2100 tel
978 905 2101 fax

November 3, 2017

Mr. John H. Rogers
Director of Project Development and
Right of way Acquisition
Department of Public Works
110 Western Avenue
Framingham, MA 01702

RE: FY19 Planning Level Cost Estimate
Hollis Street (Barbieri) Water System Redundancy – Design and Construction

Dear Mr. Rogers:

This letter confirms the need for funding for the following project:

**Hollis Street (Barbieri) Water System Redundancy – Design and Construction**

Opinion of design and construction budget: $1,325,000 (water)

Description: This project is to provide final design, bidding, and construction for 2,780 linear feet of 8-inch ductile iron water main from Bates Road Extension to Thayer Street, using the existing sewer easement on CSX property and another that extends east from Thayer Street.

Justification and Comments: The project will provide for redundancy in service to the neighborhood east of Waushakum Pond at the Ashland town line, currently vulnerable to loss of water because it is served only by a single 8-inch cast iron water main on Hollis Street, installed in 1910. Loss of service during maintenance or repair events affects approximately 200 parcels, most of which are single-family residences. Providing a redundant water service (loop) will enable continued service when a main is off line, reducing risks and the general inconvenience associated with potential failure of the water main on Hollis Street. Furthermore, the second main connected to the neighborhood will substantially improve water circulation, leading to improved water quality.

Key Assets: 2,780 LF new 8" ductile iron water main

Please do not hesitate to contact me if you have any comments or questions.

Sincerely,

Joseph M. Boccadoro, P.E.
Project Manager
AECOM

# FY2019 Requested: Deferred to FY2020 or beyond

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Water/2019/G | **Budget Year:** | 2019 |
| **Project Title:** | Pleasant St and Temple St Water Mains - Design | **Scenario:** | Main 2019 |
| **Asset Type:** | WATER - MAINS | **Budget Status:** | Department Request |
| **Department:** | C1-450 - Water Enterprise | **Regions:** | |
| **Project Type:** | Water Piping | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This funding request is for design of the replacement of 14,000 feet of water mains, including surveyed base mapping.

## Comments:

See related Pleasant St Area Sewers and Pump Stations.

## Justification:

The water mains along these streets require replacement due to their age, condition, size and materials, and will be less costly if constructed at the same time as the planned sewer repairs and replacements in Pleasant Street. All are more than 7 decades old, some are substandard 6-inch diameter, and some are asbestos cement, with the unlined cast iron water mains having interior tuberculation and corrosion that results in decreased capacity. Replacement will assure adequate flow and substantially increase reliability of the water system in this area.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 825,000 | 0 | 825,000 |
| | **825,000** | **0** | **825,000** |

**Stantec Consulting Services Inc.**
5 Burlington Woods Drive Suite 210, Burlington MA 01803-4542

November 3, 2017

**Attention: John Rogers**
Director of Project Development and Right of Way Acquisition
Town of Framingham - Department of Public Works
110 Western Avenue
Framingham, MA 01702

Dear Mr. Rogers,

**Reference: Pleasant Street/Temple Street Water Mains - Designs**

This letter confirms the need for $825,000 in funding for the design of the replacement of 14,000 feet of water mains, including surveyed base mapping for Pleasant Street and Temple Street.

Pleasant Street and the northern end of Temple Street have 8-inch and 6-inch diameter water mains that are unlined cast iron installed around 1920 and asbestos cement (AC) installed in 1939, all of which are near the end of their anticipated service life. The cast iron pipe has interior tuberculation and corrosion, with reduced flow capacity and service reliability, and the asbestos cement pipe deteriorates more quickly than other types of pipe. The August 2017 Draft Water System Master Plan Report identified Pleasant Street as a critical water main needing high priority improvement to address unlined cast iron mains. Replacement will restore capacity to the water system in this area and improve reliability.

The project extent is along Pleasant from the west end of the AC pipe (between Waveney and Pine Hill Roads, near 1000 Pleasant Street) to Worcester Road, and the section of Temple Street water main from Pleasant Street to the Mass Pike, which is approximately 14,000 linear feet of new 8-inch ductile iron pipe. The project will also include replacement of all water services to the curb stops, and hydrants.

It is anticipated that design for this work would begin in June 2019 and would have a duration of one year.

Regards,

**STANTEC CONSULTING SERVICES INC.**

Erica Lotz

Erica Lotz, P.E., ENV SP
Associate
Phone: (781) 221-1163
Erica.Lotz@stantec.com

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Design with community in mind

# FY2019 Requested: Deferred to FY2020 or beyond

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Water/2019/H | **Budget Year:** | 2019 |
| **Project Title:** | Worcester Road (9/90) Water Main - Design | **Scenario:** | Main 2019 |
| **Asset Type:** | WATER - MAINS | **Budget Status:** | Department Request |
| **Department:** | C1-450 - Water Enterprise | **Regions:** | |
| **Project Type:** | Water Piping | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This funding request is for design of the 1,700 foot water main replacement along the south side of the roadway west of the Mass Pike, or potential lining rehabilitation, including surveyed base mapping.

## Comments:

See related construction of this project anticipated for FY2020.
This is one of the last remaining century-old water mains in the 9/90 and Tech Park areas.

## Justification:

This water main requires replacement due to age, condition and material, with the unlined cast iron pipe more than 10 decades old, and both interior tuberculation and exterior corrosion that result in decreased capacity and reliability. Replacement will assure adequate flow and substantially increase reliability of the water system in this area.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 135,000 | 0 | 135,000 |
| | **135,000** | **0** | **135,000** |

**Stantec Consulting Services Inc.**
5 Burlington Woods Drive Suite 210, Burlington MA 01803-4542

November 3, 2017

**Attention: John Rogers**
Director of Project Development and Right of Way Acquisition
Town of Framingham - Department of Public Works
110 Western Avenue
Framingham, MA 01702

Dear Mr. Rogers,

**Reference: Worcester Road (9/90) Water Main - Design**

This letter confirms the need for $135,000 in funding for the design of the 1,700 foot water main water main replacement along the south side of Worcester Road, west of the Massachusetts Turnpike, or potential lining rehabilitation, including surveyed base mapping.

The 1,700 linear foot water main in Worcester Road between Crossing Boulevard and Massachusetts Turnpike (Interstate 90) overpass consists of 8-inch diameter unlined cast iron water main installed ca. 1900 that is at the end of its anticipated service life. The cast iron has a buildup of interior tuberculation and corrosion, which results in reduced flow capacity. The Draft Water System Master Plan Report dated August 2017 identified Worcester Road as a critical water main needing high priority improvement to address unlined cast iron mains. The Worcester Road area supports a key commercial area of the Town. Replacement will restore capacity to the water system in this area and improve reliability. The project includes replacement of all water services to the curb stops, and hydrants.

It is anticipated that design for this work would begin in June 2019 and would have a duration of one year.

Regards,

**STANTEC CONSULTING SERVICES INC.**

Erica Lotz

Erica Lotz, P.E., ENV SP
Associate
Phone: (781) 221-1163
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# FY2019 Recommended: Bond $544,321

| | | | |
|---|---|---|---|
| **Project Number:** | TECH/Technology/2019/A | **Budget Year:** | 2019 |
| **Project Title:** | Radio Communications Upgrade | **Scenario:** | Main 2019 |
| **Asset Type:** | NETWORKS | **Budget Status:** | Department Request |
| **Department:** | C7-155 - Technology Services | **Regions:** | |
| **Project Type:** | Town Technology Hardware | **Active:** | Yes |
| **Year Identified:** | 2018 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

The following proposal is being presented as a complete Framingham radio communication upgrade. This upgrade will prepare Framingham for the future by adding repeater sites to resolve dead spots currently reported by the Framingham Police Department. Additionally, the radio system upgrade will assist with the digital upgrade that is being required by Verizon with their copper to fiber migration. Lastly, the project will supply the Parks and Recreation Department with an update to their aging VHF radio system.

## Comments:

## Justification:

This project consists of three major components –
1. The radio equipment (quotes from Motorola and their integration partner Voorhees Communication)
2. Fiber optic needs (quotes are provided by Comm-Tract Corp.)
3. Switching, optics and network engineering services (quotes provided by EPlus)

Below is a proposed breakdown by agency and what their requirements are. The unknown costs at this time are Detail costs for the fiber optic installations which we are responsible for paying, as well as the cost of the necessary leased T1 lines to Staples and the tower on Chrysler road in Natick.

Fire Department requirements
Upgrade the repeater at Framingham State and relocate it to the MSP (Mass State Police) tower on Rt9.
Upgrade the repeater from Metrowest Medical tower and relocate to Doeskin Water tank.
Install a new receiver at DPW Tower/Western Ave.
Upgrade the receivers installed at Stapleton School, High School, Staples (9/90 Complex).
Update to new comparator and gateways at Fire Dispatch.

Police requirements
Upgrade the existing repeater at the MSP tower on RT9.
Upgrade to new comparator hardware and gateways at Police HQ.
Upgrade the existing receiver at Stapleton School.
Upgrade the existing receiver at the High School.
Current hardware installed at the MSP tower on Nobscot Mountain is ok.
Current hardware installed at the Chrysler road tower in Natick is ok.
Install a new receiver at DPW Tower at Western Ave.
Install a new receiver at Staples (9/90 Complex).
Install a new receiver at BeeBees Water tank on Edmunds Rd.

DPW requirements
DPW needs a fiber connection from the repeater at the MSP tower on Rt9 to the MSP tower on Nobscot Mountain, since this connection cannot be made with a microwave connection without a tower at the Indian head water tank.

Park and Recreation Requirements
Park and Rec is by far the oldest system and cannot be upgraded; they are currently running on a legacy VHF channel that is a non-repeater system. The recommendation is to move them to a new frequency. Since it will be difficult to get a new frequency for a non-emergency responder, DPW Water department can apply for a new frequency; they can then be migrated to the new frequency and the existing frequency can be re-purposed for the Park and Rec department. Park and Rec will need a complete upgrade of the existing subscriber radios (truck mounted) and a new transmitter as well. Exixting DPW radios will need to be reprogrammed to the new frequency.

Building Services
No upgrades needed at this time; they currently use the existing emergency band and do very little radio communication.

School and Transportation
No upgrades needed at this time; they are already running on a digital system and connecting the sites over their fiber optic network. Since they are not considered a first responder they are allowed to have the radio traffic over a shared medium.

Fiber and network requirements

# FY2019 Recommended: Bond $544,321

Fiber will have to be run between the Doeskin Water tank and the MSP tower on Nobscot Mountain; this will tie into the existing municipal fiber backbone. We will need to install a fiber connection to the MSP equipment shed located at the MSP facility located on Rt9. This will allow us to run a direct connection between the DPW comparator and the repeater.

New Verizon leased T1 from Staples to Framingham Police HQ
New Verizon leased T1 from Chrysler Road to Framingham Police HQ

Install fiber from the existing municipal fiber backbone to the electrical room at Stapleton School and the High School. All of the fiber will need to be connected back to the 3rd floor of Police HQ where the main the switch will be located to connect it all together.

**Description:**

**Comments:**

**Project Forecast**

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 544,321 | 0 | 544,321 |
| | **544,321** | **0** | **544,321** |

**Radio Upgrade FY2019**

| Item | Total | Source/vendor | |
|---|---|---|---|
| Radio System Upgrade | $ 454,144.60 | Quote - Motorola/Voorhees | (See below for breakdc |
| Networking | $ 46,991.04 | Quote - ePlus | |
| Fiber installation | $ 32,575.00 | Quote - Comm-tract | |
| T1 lines (2) | $ 2,610.08 | State contract - Verizon | |
| Details | $ 8,000.00 | Estimate 2 officers/day for 10 days | |
| | **$ 544,320.72** | | |

| | |
|---|---|
| FIRE DISPATCH | 22,302.50 |
| POLICE DISPATCH | 22,302.50 |
| WESTERN AVE TOWER | 31,577.00 |
| STAPLES | 31,577.00 |
| SP WORCESTOR RD TOWER | 36,176.00 |
| SP NOBSCOTT TOWER | 22,276.44 |
| NOBSCOTT WATER TANK | 36,906.80 |
| HIGH SCHOOL A STREET | 31,577.00 |
| STAPLETON SCHOOL | 31,577.00 |
| CHRYSLER RD TOWER | 14,710.50 |
| BB WATER TANK | 35,556.94 |
| PARK AND REC SYSTEM | 117,604.92 |
| System engineering | 20,000.00 |
| | **454,144.60** |

# FY2019 Recommended: Free Cash $186,000

| | | | |
|---|---|---|---|
| **Project Number:** | TECH/Technology/2019/B | **Budget Year:** | 2019 |
| **Project Title:** | Archived Document Scanning - Phase VII | **Scenario:** | Main 2019 |
| **Asset Type:** | | **Budget Status:** | Department Request |
| **Department:** | C7-155 - Technology Services | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

**Description:**

Continuation of digitizing paper documents to aid in retrieval as well as for document preservation.

**Comments:**

**Justification:**

Phase VII of this project will continue with year 3 of 3 for the project that began in FY17, focusing on Police, Fire, Human Resources, DPW/Engineering, and Veterans Services.

**Description:**

**Comments:**

**Project Forecast**

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 186,000 | 0 | 186,000 |
| | **186,000** | **0** | **186,000** |

## Scope of Work for Town of Framingham- LaserFiche Integration

### Police Department - Master Name Cards

| | |
|---|---|
| 30 | Number of Shelves (6 rows of 1 ln/ft) |
| 180 | Number of linear feet of Cards (double-sided) |
| 144,000 | Number of Cards (180 ln/ft x 800 cards) (2 images per card) |
| 288,000 | Number of Images |
| 144,000 | Index at the Card Level by Name (Last, First) |

| Quantity | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 144,000 | LF1-DS-Cards | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 13,942.08 |
| 144,000 | LF13-Name | Indexing (data entry) up to 20 characters per Card (Name, L,F) | $ 0.14420 | $ 20,764.80 |
| 288,000 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 2,966.40 |
| 46 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 5,922.50 |
| 16 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 2,060.00 |
| 16 | LF17-Pack | Hourly rate for additional clerical/doc preparation | $ 26.78 | $ 428.48 |
| 2.0 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 1,133.00 |
| | | **Police Department - Master Name Cards** | | **$ 47,217.26** |

### Police Department - Incident Reports and Arrests

| | |
|---|---|
| 65 | Number of Shelves (19 shelves x 3 ln/ft + 46 shelves x 4 ln/ft) |
| 241 | Number of linear feet of Incident Reports/Arrests |
| 12,050 | Number of Incident Reports/Arrests (241 ln/ft x 40 reports) (50 pages per) |
| 602,500 | Number of Images (241 ln/ft x 2,000 pages)+ 25% double-sided |
| 12,050 | Index at the Incident Level by Category, Date, Case # |
| | Includes photos, envelops do not need to be scanned |
| | Many of the forms are double-sided |

| Quantity | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 602,500 | LF1-heavy prep | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes heavy prep and 100% QC | $ 0.12360 | $ 74,469.00 |
| 12,050 | LF13 | Indexing (data entry) up to 30 characters per Folder or Doc Set | $ 0.21630 | $ 2,606.42 |
| 602,500 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 6,205.75 |
| 42 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 5,407.50 |
| 24 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 3,090.00 |
| 80 | LF17-Pack | Hourly rate for packing boxes and additional clerical/doc preparation | $ 26.78 | $ 2,142.40 |
| 3.0 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 1,699.50 |
| | | **Police Department - Incident Reports and Arrests** | | **$ 95,620.57** |

## Police Department - Police Logs

| | |
|---|---|
| 8 | Number of Shelves (21 Binders per shelf) |
| 168 | Number of Binders |
| 42,000 | Number of Images (168 binders x 250 pages per) |
| 168 | Index at the Binder Level by Date (to and from) |

| Quantity | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 42,000 | LF1-heavy prep | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes heavy prep and 100% QC | $ 0.12360 | $ 5,191.20 |
| 168 | LF14 | Indexing (data entry) up to 50 characters per Folder or Doc Set | $ 0.36050 | $ 60.56 |
| 42,000 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 432.60 |
| 8 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,030.00 |
| 8 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,030.00 |
| 3 | LF17-Pack | Hourly rate for additional clerical/doc preparation | $ 26.78 | $ 80.34 |
| 1.0 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 566.50 |
| | | **Police Department - Police Logs** | | **$ 8,391.20** |

## Police Department - Roll Film of Incidents

| | |
|---|---|
| 400 | Number of 16mm Roll Film Cartridges |
| 100,000 | Number of Images (400 rolls x 2,500 images) |
| 400 | Index at the Roll Level by Roll Number |

| Quantity | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 100,000 | LF7 | Scan 16mm Roll Microfilm (200 or 300 dpi) B&W or Grayscale | $ 0.03090 | $ 3,090.00 |
| 400 | LF12 | Indexing (data entry) up to 10 characters per Roll | $ 0.07210 | $ 28.84 |
| 100,000 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 1,030.00 |
| 4 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| 4 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| | | **Police Department - Roll Film of Incidents** | | **$ 5,178.84** |

## Police Department -Personnel Files

| | | |
|---|---|---|
| 14 | | Number of Drawers |
| 28 | | Number of linear feet of files (14 drawers x 2 ln/ft) |
| 450 | | Number of Personnel Files |
| 2,700 | | Number of Sections (6 sections per file) |
| 56,000 | | Number of Images (28 ln/ft x 2,000 pages) |
| 450 | | Index at the File Level by Name (Last, First) |
| 2,700 | | Index at the Section Level (by Section Name) |
| | | Active and Inactive |

| Quantity | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 56,000 | LF1-DS-Cards | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 5,421.92 |
| 450 | LF13-Name | Indexing (data entry) up to 20 characters per Card (Name, L,F) | $ 0.14420 | $ 64.89 |
| 56,000 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 576.80 |
| 8 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,030.00 |
| 8 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,030.00 |
| 6 | LF17-Pack | Hourly rate for additional clerical/doc preparation | $ 26.78 | $ 160.68 |
| 1.0 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 566.50 |
| | | **Police Department -Personnel Files** | | **$ 8,850.79** |

## Police Department - Financial Summary

| | |
|---|---|
| Police Department - Master Name Cards | $ 47,217.26 |
| Police Department - Incident Reports and Arrests | $ 95,620.57 |
| Police Department - Police Logs | $ 8,391.20 |
| Police Department - Roll Film of Incidents | $ 5,178.84 |
| Police Department -Personnel Files | $ 8,850.79 |
| **Total** | **$ 165,258.66** |

## Fire Department -Commercial Property Files

| | |
|---|---|
| 27 | Number of lateral file cabinets (4 drawers 30" each) |
| 270 | Number of linear feet of files (27 cab x 4 drawers x 2.5 ln/ft) |
| 3,240 | Number of  files ( 270 ln/ft x 12 files per ln/ft) |
| 534,600 | Number of Small Document Images (270 ln/ft x 1,800 pages)+ 10 double-sided |
| 8,100 | Number of large Documents (over 11x17) (270 ln/ft x 30 dwgs per ln/ft) |
| 542,700 | Total Number of Images for Upload (534,600 + 8,100) |
| 3,240 | Index at the File Level by Street Address |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 534,600 | LF1 | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 51,759.97 |
| 8,100 | LF3 | Scan Large Format - Folded (over 11"x 17" - up to 36"x48") at 300 dpi into B&W or Color, includes QC | $ 1.28750 | $ 10,428.75 |
| 3,240 | LF13 | Indexing (data entry) up to 30 characters per Folder | $ 0.21630 | $ 700.81 |
| 542,700 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 5,589.81 |
| 36 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 4,635.00 |
| 12 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,545.00 |
| 24 | LF17-Pack | Hourly rate for packing boxes and additional clerical/doc preparation | $ 26.78 | $ 642.72 |
| 3.0 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 1,699.50 |
| | | **Fire Department -Commercial Property Files** | | **$ 77,001.56** |

## Fire Department - Residential Permits

| | |
|---|---|
| 9 | Number of Shelves (3 ln/ft) |
| 27 | Number of linear feet of files |
| 27,000 | Number of Permits (27 ln/ft x 1,000 permits) |
| 54,000 | Number of Images (27 ln/ft x 2,000 pages) |
| 27,000 | Index at the Permit Level by Year, Permit # and Address |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 54,000 | LF1 | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 5,228.28 |
| 27,000 | LF13 | Indexing (data entry) up to 30 characters per Folder | $ 0.21630 | $ 5,840.10 |
| 54,000 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 556.20 |
| 30 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 3,862.50 |
| 4 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| 4 | LF17-Pack | Hourly rate for additional clerical/doc preparation | $ 26.78 | $ 107.12 |
| 2.0 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 1,133.00 |
| | | **Fire Department - Residential Permits** | | **$ 17,242.20** |

## Fire Department -Incident Reports

| | |
|---|---|
| 54 | Number of Shelves (3 ln/ft) |
| 162 | Number of linear feet of files (54 shelves x 3 ln/ft) |
| 583,200 | Number of Images (162 ln/ft x 1,800 pages x 2 for double-sided) |
| 145,800 | Number of Incident Reports (583,000/4 pages each) |
| 145,800 | Index at the Permit Level by Street Address, Date and Incident Number |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 583,200 | LF1 | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 56,465.42 |
| 145,800 | LF13 | Indexing (data entry) up to 30 characters per Folder | $ 0.21630 | $ 31,536.54 |
| 583,200 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 6,006.96 |
| 120 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 15,450.00 |
| 8 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,030.00 |
| 24 | LF17-Pack | Hourly rate for packing boxes and additional clerical/doc preparation | $ 26.78 | $ 642.72 |
| 2.0 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 1,133.00 |
| | | **Fire Department -Incident Reports** | | **$ 112,264.64** |

## Fire Department -Personnel Files

| | |
|---|---|
| 9 | Number of Shelves (3 ln/ft) |
| 27 | Number of linear feet of files (9 shelves x 3 ln/ft) |
| 225 | Number of Personnel Files (9 shelves x 25 files per shelve) |
| 54,000 | Number of Images (27 ln/ft x 2,000 pages) |
| 225 | Index at the File Level by Name (Last, First) |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 54,000 | LF1 | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 5,228.28 |
| 225 | LF13-Name | Indexing (data entry) up to 20 characters per file (Name, L,F) | $ 0.14420 | $ 32.45 |
| 54,000 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 556.20 |
| 4 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| 4 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| 2 | LF17-Pack | Hourly rate for additional clerical/doc preparation | $ 26.78 | $ 53.56 |
| 1.0 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 566.50 |
| | | **Fire Department -Personnel Files** | | **$ 7,466.99** |

**Fire Department -Deputy Reports and Special Notes and Miscellaneous**

| | |
|---|---|
| 175 | Number of Binders (135) and Volumes (40) |
| 87,500 | Number of Images (175 binders/volumes x 500 pages) |
| 175 | Index at the Binder/Volume File Level by Text on Binding |
| 5 | Tank Registration, General Chemical, High School - Drawers |
| 17,500 | Number of Pages (3,500 pages per drawer) |
| 4,375 | Number of Documents to be Index at the File Level by Tab info (4 pages per) |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 105,000 | LF1 | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 10,166.10 |
| 4,550 | LF13 | Indexing (data entry) up to 20 characters per file (Name, L,F) | $ 0.14420 | $ 656.11 |
| 105,000 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 1,081.50 |
| 8 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,030.00 |
| 4 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| 2 | LF17-Pack | Hourly rate for additional clerical/doc preparation | $ 26.78 | $ 53.56 |
| 0.5 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 283.25 |
| | | **Fire Department -Deputy Reports and Special Notes and Miscellaneous** | | **$ 13,785.52** |

**Fire Department - Financial Summary**

| | |
|---|---|
| Fire Department -Commercial Property Files | $ 77,001.56 |
| Fire Department - Residential Permits | $ 17,242.20 |
| Fire Department -Incident Reports | $ 112,264.64 |
| Fire Department -Personnel Files | $ 7,466.99 |
| Fire Department -Deputy Reports and Special Notes and Miscellaneous | $ 13,785.52 |
| **Fire Department Total** | **$ 227,760.91** |

| | | |
|---|---|---|
| | | **Human Resources Department -Personnel Files - Active** |
| 5 | | Number of file cabinets (4 drawers 24" each) |
| 40 | | Number of linear feet of files (5 cab x 4 drawers x 2 ln/ft) |
| 2,250 | | Number of files ( 1,500 personnel files + 750 medical) |
| 79,200 | | Number of Small Document Images (40 ln/ft x 1,800 pages)+ 10% double-sided |
| 79,200 | | Total Number of Images for Upload |
| 2,250 | | Index at the File Level by Name (Last, First, Middle) |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 79,200 | LF1 | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 7,668.14 |
| 2,250 | LF13-Name | Indexing (data entry) up to 20 characters per File (Name, L,F,M) | $ 0.14420 | $ 324.45 |
| 79,200 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 815.76 |
| 6 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 772.50 |
| 4 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| 2 | LF17-Pack | Hourly rate for packing boxes and additional clerical/doc preparation | $ 26.78 | $ 53.56 |
| 1.0 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 566.50 |
| | | **Human Resources Department -Personnel Files - Active** | | **$ 10,715.91** |

| | | |
|---|---|---|
| | | **Human Resources Department - Benefit files** |
| 38 | | Number of file cabinet drawers (24") |
| 76 | | Number of linear feet of files (38 drawers x 2 ln/ft) |
| 6,000 | | Number of files |
| 150,480 | | Number of Small Document Images (76 ln/ft x 1,800 pages)+ 10% double-sided |
| 150,480 | | Total Number of Images for Upload |
| 6,000 | | Index at the File Level by Name (Last, First, Middle) |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 150,480 | LF1 | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 14,569.47 |
| 6,000 | LF13-Name | Indexing (data entry) up to 20 characters per File (Name, L,F,M) | $ 0.14420 | $ 865.20 |
| 150,480 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 1,549.94 |
| 10 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,287.50 |
| 4 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| 4 | LF17-Pack | Hourly rate for packing boxes and additional clerical/doc preparation | $ 26.78 | $ 107.12 |
| 1.0 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 566.50 |
| | | **Human Resources Department - Benefit files** | | **$ 19,460.74** |

## Human Resources Department - Terminated Personnel files

| | |
|---|---|
| 11 | Number of file cabinet drawers (36") |
| 33 | Number of linear feet of files (38 drawers x 2 ln/ft) |
| 1,100 | Number of files (11 drawers x 100 files) |
| 65,340 | Number of Small Document Images (33 ln/ft x 1,800 pages)+ 10% double-sided |
| 65,340 | Total Number of Images for Upload |
| 1,100 | Index at the File Level by Name (Last, First, Middle) |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 65,340 | LF1 | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 6,326.22 |
| 1,100 | LF13-Name | Indexing (data entry) up to 20 characters per File (Name, L,F,M) | $ 0.14420 | $ 158.62 |
| 65,340 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 673.00 |
| 6 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 772.50 |
| 4 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| 3 | LF17-Pack | Hourly rate for packing boxes and additional clerical/doc preparation | $ 26.78 | $ 80.34 |
| 0.5 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 283.25 |
| | | **Human Resources Department - Terminated Personnel files** | | **$ 8,808.93** |

## HR Department - Temp and Terminated Benefit files

| | |
|---|---|
| 3 | Number of file cabinet drawers (36") |
| 9 | Number of linear feet of files (3 drawers x 3 ln/ft) |
| 750 | Number of files (3 drawers x 250 files) |
| 17,820 | Number of Small Document Images (9 ln/ft x 1,800 pages)+ 10% double-sided |
| 17,820 | Total Number of Images for Upload |
| 750 | Index at the File Level by Name (Last, First, Middle) |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 17,820 | LF1 | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 1,725.33 |
| 750 | LF13-Name | Indexing (data entry) up to 20 characters per File (Name, L,F,M) | $ 0.14420 | $ 108.15 |
| 17,820 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 183.55 |
| 2 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 257.50 |
| 2 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 257.50 |
| 0.5 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 283.25 |
| | | **HR Department - Temp and Terminated Benefit files** | | **$ 2,815.28** |

## Human Resources - Financial Summary

| | |
|---|---|
| Human Resources Department -Personnel Files - Active | $ 10,715.91 |
| Human Resources Department - Benefit files | $ 19,460.74 |
| Human Resources Department - Terminated Personnel files | $ 8,808.93 |
| HR Department - Temp and Terminated Benefit files | $ 2,815.28 |
| **Human Resources Total** | **$ 41,800.86** |

## Dept. of Public Works - #5,6 - Plan Review files

| | |
|---|---|
| 8 | Number of lateral file drawers |
| 600 | Number of files (8 drawers x 75 files) |
| 36,000 | Number of Small Document Images (8 drawers x 4,500 pages) |
| 800 | Number of Large Documents (over 11x17) (8 drawers x 100 dwgs) |
| 36,800 | Total Number of Images for Upload (36,000 + 800) |
| 600 | Index at the File Level by Folder Tab Info |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 36,000 | LF1 | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 3,485.52 |
| 800 | LF3 | Scan Large Format - Folded (over 11"x 17" - up to 36"x48") at 300 dpi into B&W or Color, includes QC | $ 1.28750 | $ 1,030.00 |
| 600 | LF13 | Indexing (data entry) up to 30 characters per Folder | $ 0.21630 | $ 129.78 |
| 36,800 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 379.04 |
| 8 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,030.00 |
| 4 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| 4 | LF17-Pack | Hourly rate for packing boxes and additional clerical/doc preparation | $ 26.78 | $ 107.12 |
| 0.3 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 169.95 |
| | | **Dept. of Public Works - #5,6 - Plan Review files** | | **$ 6,846.41** |

## Dept. of Public Works - #11,12,13 -Planning Board files

| | |
|---|---|
| 9 | Number of file drawers |
| 675 | Number of files (9 drawers x 75 files) |
| 18,000 | Number of Small Document Images (9 drawers x 2,000 pages) |
| 3,600 | Number of Large Documents (over 11x17) (9 drawers x 400 dwgs) |
| 21,600 | Total Number of Images for Upload (40,500 + 3,600) |
| 675 | Index at the File Level by Folder Tab Info |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 18,000 | LF1 | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 1,742.76 |
| 3,600 | LF3 | Scan Large Format - Folded (over 11"x 17" - up to 36"x48") at 300 dpi into B&W or Color, includes QC | $ 1.28750 | $ 4,635.00 |
| 675 | LF13 | Indexing (data entry) up to 30 characters per Folder | $ 0.21630 | $ 146.00 |
| 21,600 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 222.48 |
| 8 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,030.00 |
| 4 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| 4 | LF17-Pack | Hourly rate for packing boxes and additional clerical/doc preparation | $ 26.78 | $ 107.12 |
| 0.3 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 169.95 |
| | | **Dept. of Public Works - #11,12,13 -Planning Board files** | | **$ 8,568.31** |

**Dept. of Public Works - #18,21,44,45 -Traffic, Project and Old Drawings**

| | |
|---|---|
| 7 | Number of file drawers |
| 525 | Number of files (7 drawers x 75 files) |
| 14,000 | Number of Small Document Images (7 drawers x 2,000 pages) |
| 2,800 | Number of Large Documents (over 11x17) (7 drawers x 400 dwgs) |
| 16,800 | Total Number of Images for Upload (14,000 + 2,800) |
| 525 | Index at the File Level by Folder Tab Info |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 14,000 | LF1 | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 1,355.48 |
| 2,800 | LF3 | Scan Large Format - Folded (over 11"x 17" - up to 36"x48") at 300 dpi into B&W or Color, includes QC | $ 1.28750 | $ 3,605.00 |
| 525 | LF13 | Indexing (data entry) up to 30 characters per Folder | $ 0.21630 | $ 113.56 |
| 16,800 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 173.04 |
| 8 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,030.00 |
| 4 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| 4 | LF17-Pack | Hourly rate for packing boxes and additional clerical/doc preparation | $ 26.78 | $ 107.12 |
| 0.3 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 169.95 |
| | | **Dept. of Public Works - #18,21,44,45 -Traffic, Project and Old Drawings** | | **$ 7,069.15** |

**Dept. of Public Works - #47 - Sub-Divisions**

| | |
|---|---|
| 4 | Number of file drawers |
| 300 | Number of files (4 drawers x 75 files) |
| 12,000 | Number of Small Document Images (4 drawers x 3,000 pages) |
| 1,600 | Number of Large Documents (over 11x17) (4 drawers x 400 dwgs) |
| 13,600 | Total Number of Images for Upload (12,000 + 1,600) |
| 300 | Index at the File Level by Folder Tab Info |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 12,000 | LF1 | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 1,161.84 |
| 1,600 | LF3 | Scan Large Format - Folded (over 11"x 17" - up to 36"x48") at 300 dpi into B&W or Color, includes QC | $ 1.28750 | $ 2,060.00 |
| 300 | LF13 | Indexing (data entry) up to 30 characters per Folder | $ 0.21630 | $ 64.89 |
| 13,600 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 140.08 |
| 8 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,030.00 |
| 4 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| 4 | LF17-Pack | Hourly rate for packing boxes and additional clerical/doc preparation | $ 26.78 | $ 107.12 |
| 0.3 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 169.95 |
| | | **Dept. of Public Works - #47 - Sub-Divisions** | | **$ 5,248.88** |

**Dept. of Public Works - #? - Accepted streets**

| | |
|---|---|
| 12 | Number of file drawers |
| 900 | Number of  files (7 drawers x 75 files) |
| 18,000 | Number of Small Document Images (12 drawers x 1,500 pages) |
| 600 | Number of Large Documents (over 11x17) (12 drawers x 50 dwgs) |
| 18,600 | Total Number of Images for Upload (14,000 + 2,800) |
| 900 | Index at the File Level by Folder Tab Info |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 18,000 | LF1 | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 1,742.76 |
| 600 | LF3 | Scan Large Format - Folded (over 11"x 17" - up to 36"x48") at 300 dpi into B&W or Color, includes QC | $ 1.28750 | $ 772.50 |
| 900 | LF13 | Indexing (data entry) up to 30 characters per Folder | $ 0.21630 | $ 194.67 |
| 18,600 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 191.58 |
| 4 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| 4 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| 4 | LF17-Pack | Hourly rate for packing boxes and additional clerical/doc preparation | $ 26.78 | $ 107.12 |
| 0.3 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 169.95 |
| | | **Dept. of Public Works - #? - Accepted streets** | | **$ 4,208.58** |

**Dept. of Public Works -#33,34, 35,36- Card Files A-Z and Accepted**

| | |
|---|---|
| 15 | Number of Drawers |
| 60,000 | Number of Cards (4,000 cards per drawer) (single-sided) |
| 60,000 | Number of Images |
| 60,000 | Index at the Card Level by Street, MLB#'s (up to 50 characters) |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 60,000 | LF1-DS-Cards | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 5,809.20 |
| 60,000 | LF14 | Indexing (data entry) up to 50 characters per Card | $ 0.36050 | $ 21,630.00 |
| 60,000 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 618.00 |
| 54 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 6,952.50 |
| 12 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,545.00 |
| 4 | LF17-Pack | Hourly rate for additional clerical/doc preparation | $ 26.78 | $ 107.12 |
| 0.5 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 283.25 |
| | | **Dept. of Public Works -#33,34, 35,36- Card Files A-Z and Accepted** | | **$ 36,945.07** |

**Dept. of Public Works - #10,37,38 - Assessor and Maps**

| | |
|---|---|
| 40 | Number of lateral file drawers |
| 3,000 | Number of files (40 drawers x 75 files) |
| 3,000 | Number of Large Documents (over 11x17) (40 drawers x 75 dwgs) |
| 3,000 | Total Number of Images for Upload (36,000 + 800) |
| 3,000 | Index at the Drawing Level (up to 30 characters |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 3,000 | LF3 | Scan Large Format - Folded (over 11"x 17" - up to 36"x48") at 300 dpi into B&W or Color, includes QC | $ 1.28750 | $ 3,862.50 |
| 3,000 | LF13 | Indexing (data entry) up to 30 characters per drawing | $ 0.21630 | $ 648.90 |
| 3,000 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 30.90 |
| 8 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,030.00 |
| 4 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| 4 | LF17-Pack | Hourly rate for packing boxes and additional clerical/doc preparation | $ 26.78 | $ 107.12 |
| 0.3 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 169.95 |
| | | **Dept. of Public Works - #10,37,38 - Assessor and Maps** | | **$ 6,364.37** |

**Dept. of Public Works - Henry Street - Facility, Parking Plans, Town Roads, School Bldg, Misc (3,000 drawings each)**

| | |
|---|---|
| 15,000 | Number of Large Documents (over 11x17) (40 drawers x 75 dwgs) |
| 15,000 | Total Number of Images for Upload (36,000 + 800) |
| 15,000 | Index at the Drawing Level (up to 50 characters) |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 15,000 | LF2 | Scan Large Format - Rolled or Flat (over 11"x 17" - up to 36"x48") at 300 dpi into B&W or Color, includes QC | $ 1.08253 | $ 16,237.95 |
| 15,000 | LF14 | Indexing (data entry) up to 50 characters per Drawing | $ 0.36050 | $ 5,407.50 |
| 15,000 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 154.50 |
| 24 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 3,090.00 |
| 8 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,030.00 |
| 4 | LF17-Pack | Hourly rate for packing boxes and additional clerical/doc preparation | $ 26.78 | $ 107.12 |
| 0.3 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 169.95 |
| | | **Dept. of Public Works - Henry Street - Facility, Parking Plans, Town Roads, School Bldg, Misc (3,000 drawings each)** | | **$ 26,197.02** |

**Dept. of Public Works - Henry Street - Parking Plan Boxes**

| | |
|---|---|
| 30 | Number of Boxes (24") |
| 2,250 | Number of files (30 boxes x 75 files) |
| 135,000 | Number of Small Document Images (30 drawers x 4,500 pages) |
| 3,000 | Number of Large Documents (over 11x17) (30 drawers x 100 dwgs) |
| 138,000 | Total Number of Images for Upload (135,000 + 3,000) |
| 2,250 | Index at the File Level by Folder Tab Info |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 135,000 | LF1 | Scan pages (up to 11"x17") (Dual-Stream) at 300 B&W Tiff and 200 Color Jpeg includes medium prep and 100% QC | $ 0.09682 | $ 13,070.70 |
| 3,000 | LF3 | Scan Large Format - Folded (over 11"x 17" - up to 36"x48") at 300 dpi into B&W or Color, includes QC | $ 1.28750 | $ 3,862.50 |
| 2,250 | LF13 | Indexing (data entry) up to 30 characters per Folder | $ 0.21630 | $ 486.68 |
| 138,000 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 1,421.40 |
| 12 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,545.00 |
| 8 | LF16-Smooth | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 1,030.00 |
| 0.3 | LF28 | Pickup and Delivery Service (up to 60 boxes) | $ 566.50 | $ 169.95 |
| | | **Dept. of Public Works - Henry Street - Parking Plan Boxes** | | **$ 21,586.23** |

**Dept. of Public Works - Financial Summary**

| | |
|---|---|
| Dept. of Public Works - #5,6 - Plan Review files | $ 6,846.41 |
| Dept. of Public Works - #11,12,13 -Planning Board files | $ 8,568.31 |
| Dept. of Public Works - #18,21,44,45 -Traffic, Project and Old Drawings | $ 7,069.15 |
| Dept. of Public Works - #47 - Sub-Divisions | $ 5,248.88 |
| Dept. of Public Works - #? - Accepted streets | $ 4,208.58 |
| Dept. of Public Works -#33,34, 35,36- Card Files A-Z and Accepted | $ 36,945.07 |
| Dept. of Public Works - #10,37,38 - Assessor and Maps | $ 6,364.37 |
| Dept. of Public Works - Henry Street - Facility, Parking Plans, Town Roads, School Bldg, Misc (3,000 drawings each) | $ 26,197.02 |
| | $ 21,586.23 |
| **Dept. of Public Works Total** | **$ 123,034.02** |

**Veterans Department - Old Bound Book and Loose Pages**

| | |
|---|---|
| 1 | Number of Books (150 pages) |
| 650 | Number of Small Document Images (150 pages from Book and 500 loose) |
| 650 | Total Number of Images for Upload |
| | Index at the Book Level and No indexing of the loose pages |

| Qty | Item # | Description - LaserFiche Integration Services | Unit | Amount |
|---|---|---|---|---|
| 150 | LF5 | Scan Bound Book Pages (up to 11"x17") (single-sided pages) | $ 0.64478 | $ 96.72 |
| 500 | LF30 | Scan Loose Pages - Flatbed Scanning | $ 0.64478 | $ 322.39 |
| 2 | LF13-Name | Indexing (data entry) up to 20 characters per File (Name, L,F,M) | $ 0.14420 | $ 0.29 |
| 650 | LF15 | Upload to LaserFiche | $ 0.01030 | $ 6.70 |
| 4 | LF16-GC | Hourly rate for integration services or new software development (i.e. new template creation, new folder structure creation, new migration programs) | $ 128.75 | $ 515.00 |
| | | **Veterans Department - Old Bound Book and Loose Pages** | | **$ 941.09** |

**Total Estimated LaserFiche Services Quotation**

| | |
|---|---|
| Police Department - Financial Summary | $ 165,258.66 |
| Fire Department - Financial Summary | $ 227,760.91 |
| Human Resources - Financial Summary | $ 41,800.86 |
| Dept. of Public Works - Financial Summary | $ 123,034.02 |
| Veterans Department - Financial Summary | $941.09 |
| **Total Estimated LaserFiche Services Quotation** | **$ 558,795.54** |

# FY2019 Recommended: Bond $116,580

| | | | |
|---|---|---|---|
| **Project Number:** | TOWNCLERK/TownClerk/2019/A | **Budget Year:** | 2019 |
| **Project Title:** | Voting Machines | **Scenario:** | Main 2019 |
| **Asset Type:** | VOTING MACHINES | **Budget Status:** | Department Request |
| **Department:** | 60-161 - Town Clerk | **Regions:** | |
| **Project Type:** | Other Non-Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

20 Voting Machines - Includes hardware, election reporting software and hardware

## Comments:

Project originally requested and recommended in the FY2018 capital budget - voted down by town meeting

## Justification:

**Purchase Price**
The Town Clerk purchased 20 Accu Vote machines from LHS Associates Inc. in July 2006 at $6500 each for a total of $130,000.

**Maintenance**
We have had maintenance contracts with LHS since July 25, 2006. From FY07 – FY10 the annual fee was $3500. From FY12 – FY17 the annual fee was $4000. The current fee is $4500.

**Expected Useful Life and Replacement Schedule**
The Accu Vote machines have an expected useful life of 10-20 years depending on care, average usage and voter turnout. Manufacturing of the Accu Vote machines stopped in 2007 and parts are becoming more difficult to locate, LHS estimates that they will be able to maintain support through 2020. Because 2020 is a Presidential Election year with an average voter turnout of 75% (30,000+ voters) I have requested 20 new voting machines in the FY19 Capital Budget.

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 116,580 | 0 | 116,580 |
| | **116,580** | **0** | **116,580** |

City of Framingham, Massachusetts

**Purchase Proposal Quote**

Submitted by LHS Associates, Inc.

October 27, 2017

| Quantity | Description | Price |
|---|---|---|
| | **HARDWARE** | |
| | **ICP Tabulator Bundle includes:** | |
| 20 | ✓ One (1) Tabulator with a padded carrying case, two (2) memory cards, one (1) power cord, one (1) key set, two (2) thermal paper rolls, one (1) dozen marking pens, six (6) security seals and an internal battery back up.<br>✓ One (1) plastic ballot box with three (3) compartments, casters and a built in power supply. Ballot boxes are able to nest for ease of storage. | $114,000.00 |
| | **ELECTION REPORTING SOFTWARE & HARDWARE** | |
| | **Results, Tally & Reporting (RTR) Software & Hardware Package** | |
| 1 | ✓ One (1) initial license for DemSuite RTR.<br>✓ One (1) laptop, One (1) laptop bag and all necessary documentation. | $7,800.00 |
| | **SERVICES** | |
| | **Two Year Hardware & Software Warranty:** | Included |
| | ✓ All parts, labor, travel and shipping costs included.<br>✓ Unlimited access to the LHS Help Desk for Pre-Election, Election Day and Post Election questions.<br>✓ An annual maintenance visit to the City of Framingham to inspect, calibrate and service all euipment.<br>✓ Any necessary repairs will take place in the City of Framingham. If onsite repair is not possible loaner equipment will be left in the customer's possession until all equipment can be repaired and returned.<br>✓ An employee of LHS, not a subcontractor, will conduct all maintenance work.<br>✓ A locally based service center with parts and technicians trained in repairing and servicing voting equipment. | |
| | **Documentation, including but not limited to:** | Included |
| | ✓ One (1) Pre Election Testing Guide, Twenty (20) Poll Worker Training Guides, One (1) Voter Tutorial Video and One (1) Instructions to Voter Poster. | |
| | **Two Training sessions exclusively for the City of Framingham.** | Included |
| | ✓ Two hours of training for the City Clerk and office staff. This training will cover basic use of the machine, pre-election testing and Election Day procedures.<br>✓ Two hours of training for Poll Workers. This training will cover Election day procedures and basic trouble shooing.<br>✓ Both trainings will be conducted in the City of Framingham and scheduled by the City Clerk. | |
| | **Onsite coverage by an employee of LHS for the first election.** | Included |
| | ✓ A member of the LHS team will work with the City Clerk from one (1) hour prior to opening the polls until two (2) hours after the polls close on Election Day.<br>✓ The representative will NOT be a subcontracted employee from another company. | |
| | **Onsite acceptance testing of all equipment.** | Included |
| | **SHIPPING & DISCOUNTS** | |
| | **Shipping & Handling** | Included |
| | **Tabulator Trade-In Credit** | -$10,000.00 |
| | **TOTAL PURCHASE** | **$111,800.00** |

| | | |
|---|---|---|
| | **POST WARRANTY FEES** | |
| 20 | Annual Post Warranty Maintenance Fee<br>✓ LHS Top Tier Coverage (Annual Maintenance Plan) | $4,000.00 |
| 1 | Annual RTR Software License<br>✓ RTR Software License Fee | $780.00 |
| | **TOTAL POST WARRANTY FEES** | **$4,780.00** |

- This quote is an estimate and is subject to final approval by LHS and the Customer
- Rate valid for 90 days and thereafter may change
- This quote does not include coding or ballot printing charges

10 Manor Parkway Unit B Salem, NH 03079
Toll Free: 888-547-8683 Fax: 603-212-0028 www.lhsassociates.com

October 27, 2017

Ms. Valerie Mulvey
City Clerk
City of Framingham
150 Concord Street, Room 105
Framingham, MA 01702
508-532-5520

Ms. Mulvey,
Thank you for allowing LHS Associates, Inc. the opportunity to provide you with a quote for new Electronic Vote Tabulators. I am pleased to present the following quote for the purchase of:

**Twenty (20) ImageCast Precinct Bundles**
**and Election Night Reporting Software & Hardware**

If you have any further questions please contact me directly.

Sincerely,

Paul Balukonis
Customer Relations Manager
LHS Associates, Inc.

# FY2019 Recommended: Free Cash $900,000

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Highway/2019/G | **Budget Year:** | 2019 |
| **Project Title:** | Beaver Street Bridge Replacement – Design and Construction | **Scenario:** | Main 2019 |
| **Asset Type:** | BRIDGES - OVER WATER OR LAND | **Budget Status:** | Department Request |
| **Department:** | C4-411 - Engineering | **Regions:** | |
| **Project Type:** | Roadway Infrastructure | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

The existing roadway bridge and sidewalks over Beaver Dam Brook will be replaced, including railings and utilities, completing other recent rehabilitation and improvements to this roadway corridor.

## Comments:

The Town has a separate state grant for the upstream Beaver Dam Brook Stream Restoration Project, which is adjacent to Mary Dennison Park, and which is awaiting resolution of contamination issues at the Park. While there is no plan to combine the two projects, largely due to their separate and different permitting, funding and construction types, the two projects will be coordinated to ensure efficiencies where possible and to avoid negatively impacting each other.

## Justification:

The existing bridge was originally built in 1922, repaired in 1951, and is in poor enough condition that it has a posted weight limit that inhibits full truck usage on this Urban Minor Arterial roadway. A majority of the cost will be paid from an approved state Small Bridge grant.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 900,000 | 0 | 900,000 |
| | **900,000** | **0** | **900,000** |

**GPI** **Greenman - Pedersen, Inc.**

Engineering and Construction Services

Ref. MAX-2015047.08

November 2, 2017
Mr. Eric V. Johnson, P.E.
Town Engineer
Framingham Department of Public Works
110 Western Avenue
Framingham, MA 01702

Attn: Mr. Matthew Hayes, P.E., Senior Project Manager - Transportation

SUBJECT: Task Order No. 8
Beaver Street over Beaver Dam Brook

Dear Mr. Johnson:

As requested, ***Greenman-Pedersen, Inc., (GPI)*** has prepared this letter to provide a description and cost estimate for the design, construction, and construction oversight of the Beaver Street Bridge over Beaver Dam Brook.

The bridge is a reinforced concrete slab on stacked stone abutments that was constructed in 1922. In 1951, a strut system was installed in the channel under the bridge. The strut system is presumed to have been installed to prevent the abutments from migrating further into the channel. This strut system is currently exhibiting heavy section loss and its continued ability to provide lateral support to the abutments is suspect. The bridge also had a weight restriction based on the capacity of the bridge slab. Due to deterioration and structural concerns, the bridge is slated for replacement.

Complete replacement of the bridge structure was determined to be necessary based on the condition of the existing structure. The new structure is proposed to be a precast concrete box culvert. As part of the project, roadway work, utility bypassing and replacement, and localized stream restoration will be required.

GPI has estimated the design, construction and construction oversight costs to be approximately $1,400,000.00. A $500,000 MassDOT Small Bridge Funding Grant has been awarded to the Town to aid in funding this Project. GPI recommends an additional $900,000 be provided in FY2019 to fund the balance of this project.

We hope that the above is sufficient for your use. Should you have any questions, please do not hesitate to contact me at 978-570-2940.

Sincerely,

**GREENMAN – PEDERSEN, INC.**

Kimberly E Armstrong PE

Kimberly Armstrong, PE
Project Manager

181 Ballardvale Street, Suite 202, Wilmington, MA 01887 Tel: (978) 570-2999 Fax: (978) 658-3044
www.gpinet.com

*An Equal Opportunity Employer*

# FY2019 Recommended: Free Cash $310,000

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Highway/2019/H | **Budget Year:** | 2019 |
| **Project Title:** | Edgell Road Culvert Rehabilitation – Design and Construction | **Scenario:** | Main 2019 |
| **Asset Type:** | OTHER STREET IMPROVEMENTS | **Budget Status:** | Department Request |
| **Department:** | C4-411 - Engineering | **Regions:** | |
| **Project Type:** | Roadway Infrastructure | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

The culvert carrying Landham Brook under Edgell Road, which is a couple hundred feet north of Edmands Road and Water Street, is in major disrepair. It is a skewed 6 feet wide by 3.5 feet tall by 100 feet long cast-in-place concrete box, with about 1 foot thickness, and about 1 foot of typical water depth. Rehab will include injection of grout at the upper corners of the culvert box, shallow and deep patching of the roof and wingwalls, full-depth concrete replacement of the west end roof, a new curb, and erosion protection. It is not anticipated that reinforcement needs to be replaced or added.

## Comments:

This is near to, and related to recent and anticipated Nobscot redevelopment and intersection improvements.

## Justification:

There is significant concrete deterioration, with exposed rebar and rust on the culvert roof (and underside of the roadway), and widespread spalling and delamination at the wingwalls that cover up to 75% of the exposed surface areas. Proactive rehabilitation will be less costly and less disruptive than replacement, particularly if that work was needed during or following an emergency (including failure).

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 310,000 | 0 | 310,000 |
| | **310,000** | **0** | **310,000** |

November 2, 2017

Ref: 13960.00

Eric V. Johnson, P.E.
Town Engineer
Framingham Dept of Public Works
110 Western Avenue
Framingham, MA 01702

Re: FY-2019 Capital Improvements
Edgell Rd Culvert Rehabilitation

Dear Mr. Johnson,

The culvert conveying Landham Brook under Edgell Road is located approximate 600 feet north of the Edgell Road at Edmands Rd/Water St intersection and is need of repair. The culvert is a skewed 6 feet wide by 4.5 feet tall by 75 feet long cast-in-place concrete box, with about 1 foot thickness, and about 1 foot of typical water depth. The proposed rehabilitation will include shallow and deep patching of the roof and wingwalls including the addition of steel reinforcement, full-depth concrete replacement of the west end headwall and roof slab including replacement of corroded steel reinforcement, new granite curb, new guardrail, additional closed drainage, and loam & seed for restoration.

There is significant concrete deterioration, with exposed rebar and rust on the culvert roof (and underside of the roadway), and widespread spalling and delamination at the wingwalls that cover up to 75% of the exposed surface areas due to the stormwater runoff directly from Edgell Road. Proactive rehabilitation will be less costly and less disruptive than replacement, particularly if that work was needed during or following an emergency (including failure).

The total costs associated with the design and construction of the Edgell Road over Landham Brook is estimated to be $310,000.

If you have any questions, or require additional information, please do not hesitate to contact me.

Sincerely,

Vanasse Hangen Brustlin, Inc.

Tracie Lenhardt

Tracie Lenhardt, P.E.

Senior Project Manager

Engineers | Scientists | Planners | Designers

101 Walnut Street
PO Box 9151
Watertown, Massachusetts 02471
P 617.924.1770
F 617.924.2286

# FY2019 Recommended: Free Cash $250,000

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Highway/2019/E | **Budget Year:** | 2019 |
| **Project Title:** | Annual Drainage System & Water Quality Improvements - 2019 | **Scenario:** | Main 2019 |
| **Asset Type:** | STORM DRAIN | **Budget Status:** | Department Request |
| **Department:** | C4-411 - Engineering | **Regions:** | |
| **Project Type:** | Stormwater Improvement | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

Annual Appropriation for DPW capital repairs to the stormwater conveyance system. Improvements include removal of debris and sedimentation restoration of channel bottoms. Includes repairs to side walls, banks and channel formed channel bases. Improvements will restore system capacity and mitigate flooding.

## Comments:

## Justification:

Necessary infrastructure improvements.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 250,000 | 0 | 250,000 |
| | **250,000** | **0** | **250,000** |

## Project Details 2019

| Object | Description | | Total Amount |
|---|---|---|---|
| **Expense** | | | |
| 34115006-58300 | Improvements | | 250,000 |
| | | **Total Expense:** | **250,000** |

## Related Projects

## Operating Budget Impact

| Budget Year | Exp (Rev) | FTE Impact |
|---|---|---|

# FY2019 Recommended: Bond $3,000,000

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Highway/2019/D | **Budget Year:** | 2019 |
| **Project Title:** | Annual Various Road Improvements - 2019 | **Scenario:** | Main 2019 |
| **Asset Type:** | STREETS & ROADS | **Budget Status:** | Department Request |
| **Department:** | C4-422 - Highway | **Regions:** | |
| **Project Type:** | Roadway Infrastructure | **Active:** | Yes |
| **Year Identified:** | 2016 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

The Annual Road Program utilizes several different maintenance applications to ensure the appropriate road condition.
Roadway Resurfacing includes mill and Hot Mix Asphalt (HMA) overlay, which is the process of grinding off the top layer of existing asphalt pavement by means of a large milling machine and replacing this layer with at least two layers of a new HMA riding surface. A leveling course may be applied prior to the final riding surface to resolve various roadway defects, ensure proper drainage, and provide adequate rideability throughout the duration of the project. Drainage improvements are made if needed before paving. Curbing is re-laid or replaced if they are in poor condition or reset for adequate reveal. Sidewalk reconstruction includes ADA handicap ramp upgrades. Signage and traffic marking are upgraded. Tentative roads scheduled for roadway resurfacing are Fenwick Street, Wickford Road, Sturgis Road, Normandy Road, Sanger Street, Thompson Street, William Welch Way and Speen Street.

The Department also utilizes several different Roadway Surface Treatment applications including:

Rubber chip seal is typically applied to neighborhood roads with low to moderate volume traffic volumes. The treatment is used to provide a flexible, waterproof wearing surface that seals the existing pavement and is highly resistant to cracking. Installation includes a HMA shim course to redefine the profile of the road, provide structural stability, and improve rideability. All utility castings are raised to finish grade, driveway aprons are adjusted as needed, and a rubber chip seal topcoat is applied. Signage and traffic markings are upgraded. The annual road program is scheduled to include: Ridgefield Drive, Leonard Road, Lohnes Road, Blackthorn Road, Bantry Road, Rosslare Road, Tara Road, Poskus Road, Hastings Street, Sunset Drive, Pitt Road, Cavanaugh Road, Fairbanks Road, Fairbanks Way, Highland Court, Murray Road, Magnolia Street, Michaud Drive, Childs Circle, Woodside Cottage Way, Gil Leonard Road, Wyndstone Way, Highgate Road, and Crestwood Drive.

Rubber chip seal can also be used in conjunction with other roadway treatments as a Stress Absorbing Membrane Interlayer (SAMI). The SAMI seals the roadway and extends its service life. Bonded Wearing Course (or Novachip) can be applied after a SAMI and includes a thin layer of a polymer modified asphalt emulsion sprayed onto the road surface followed immediately by an overlay of HMA. Castings are raised to grade and traffic markings are restored. Tentative roads scheduled for this surface treatment application are Salem End Road (partial), Parmentor Road, and Nixon Road.

Mill and fill operations are also performed by the Department in conjunction with specialized contracted equipment to address surface defects. Mill and fill can be used as a stand-alone roadway maintenance method or can be used in preparation for surface treatment products.

## Justification:

Without substantial ongoing improvements, the roadway system will deteriorate rapidly, and cost more to raise back up to a State of Good Repair.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 7,500,000 | 0 | 7,500,000 |
| | **7,500,000** | **0** | **7,500,000** |

# FY2019 Recommended: Bond $810,000

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Highway/2019/F | **Budget Year:** | 2019 |
| **Project Title:** | Salem End Road Bridge Rehab - Construction | **Scenario:** | Main 2019 |
| **Asset Type:** | BRIDGES - OVER WATER OR LAND | **Budget Status:** | Department Request |
| **Department:** | C4-422 - Highway | **Regions:** | |
| **Project Type:** | Roadway Infrastructure | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This Urban Collector roadway bridge will be repaired, as will the sidewalks (that are now closed), water, sewer force main, gas pipes and telephone conduit.

## Comments:

A September 2017 letter from the state underscores known deficiencies and urgency for permanent repairs, with the potential that continuing deterioration will result in load restrictions and/or closure in coming years.

## Justification:

This project was deferred from the FY2018 request. The existing 30-foot span bridge was constructed over the Stearns Reservoir in 1870, and the superstructure was reconstructed in 1927, and is now in a very deteriorated condition. Interim repairs were performed in June 2017 (fill holes in the deck), and in September 2017 the state directed Framingham to correct numerous deficiencies with temporary measures (fences and barriers) and permanent repairs. New floor beams, sidewalk, bridge rail and guardrail will be provided, with some additional concrete repairs performed, and the existing water line will receive new insulation. This work will extend the existing bridge life, and the need for major or total reconstruction that will be much more costly and disruptive.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 810,000 | 0 | 810,000 |
| | **810,000** | **0** | **810,000** |

GREEN INTERNATIONAL AFFILIATES, INC.
239 LITTLETON ROAD, SUITE 3 WESTFORD, MA 01886
TEL: (978) 923-0400 FAX: (978) 399-0033

November 16, 2016

Mr. Eric V. Johnson, P.E.
Town Engineer / Director of Municipal Engineering
Town of Framingham Department of Public Works
110 Western Avenue
Framingham, MA 01702

**Subject: FY-2018 Capital Improvements**
**Salem End Road Bridge Rehabilitation**
**Construction Cost**

Mr. Johnson:

The purpose of this letter is to provide a brief project description, need, and the estimated design and construction cost to perform the rehabilitation of the Salem End Road Bridge.

Bridge No. F-07-002 (244), carries Salem End Road over Stearns Reservoir in Framingham, Massachusetts. The bridge is located 0.75 miles southeast of Route 9. The 31'-6" single-span bridge was originally constructed circa 1870 and reconstructed in 1927. The structural integrity of the superstructure has been affected by deicing chemicals and a high level of moisture and is expected to continue to worsen.

Condition evaluation and analysis of key elements of the bridge's superstructure shows that the current superstructure can be retained for current use with some rehabilitation. To delay the deterioration of the concrete, it is recommended that the deficiencies found be repaired as recommended in the *Structure Evaluation Report* dated 4/26/16. Repairing the structure as indicated above is anticipated to extend its life up to 25 years.

The total cost associated with the construction cost for rehabilitation of the Salem End Road Bridge project is estimated to be approximately $600,000. To account for police details, construction contingency, design and other project related costs, Green recommends a FY 18 ATM appropriation of $870,000 for this project.

Should you have any questions, please do not hesitate to contact me, Wing Wong, P.E., PTOE, or Michael Cruz, P.E.

Very Truly Yours,

***Green International Affiliates, Inc.***

Phillip Kendall, P.E.
Transportation Department Manager

Ww/wcw

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GREEN INTERNATIONAL AFFILIATES, INC.
239 LITTLETON ROAD, SUITE 3 WESTFORD, MA 01886
TEL: (978) 923-0400 FAX: (978) 399-0033

November 3, 2017

Mr. Matthew J Hayes, P.E., ENV SP
Senior Project Manager – Transportation
Town of Framingham Department of Public Works
110 Western Avenue
Framingham, MA 01702

**Subject: FY-2019 Capital Improvements**
**Salem End Road Bridge Rehabilitation**
**Funding Request Letter**

Mr. Hayes:

The purpose of this letter is to provide a brief project description, need, and the estimated design and construction cost to perform the rehabilitation of the Salem End Road Bridge.

Bridge No. F-07-002 (244), carries Salem End Road over Stearns Reservoir in Framingham, Massachusetts. The bridge is located 0.75 miles southeast of Route 9. The 31'-6" single-span bridge was originally constructed circa 1870 and reconstructed in 1927. The structural integrity of the superstructure has been affected by deicing chemicals and a high level of moisture and is expected to continue to worsen. Due to significant deterioration of the concrete floor beams beneath the west sidewalk, the sidewalk has been closed, per the request of MassDOT in 2006. Interim repairs were constructed in June 2017 to repair holes within the gutter line along the face of the west sidewalk. In September 2017, the state directed Framingham to correct numerous deficiencies with temporary measures (fences and barriers) and permanent repairs. This project was deferred from the FY 2018 request.

Condition evaluation and analysis of key elements of the bridge's superstructure shows that the current superstructure can be retained for current use with some rehabilitation. To delay the deterioration of the concrete, it is recommended that the deficiencies found be repaired as recommended in the *Structure Evaluation Report* dated 4/26/16. Repairing the structure as indicated in the report is anticipated to extend its life up to 25 years.

This proposed rehabilitation will consist of new sidewalk slab on new concrete floor beams; replacing the existing sub-standard bridge railing; concrete repairs; and guardrail replacement. The existing utilities beneath the bridge will be maintained. The existing water line will receive new insulation.

The total cost associated with the construction cost for rehabilitation of the Salem End Road Bridge project is estimated to be approximately $600,000. To account for police details, construction contingency, design and other project related costs, Green recommends a FY 2019 appropriation of $810,000 for this project.

This letter confirms the need for $810,000 in funding for the Salem End Road Bridge Rehabilitation project.

Should you have any questions, please do not hesitate to contact me, Wing Wong, P.E., PTOE, or Michael Cruz, P.E.

Very Truly Yours,

***Green International Affiliates, Inc.***

Phillip Kendall, P.E.
Transportation Department Manager

WW/wcw

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# FY2019 Recommended: Free Cash $210,000

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Highway/2019/J | **Budget Year:** | 2019 |
| **Project Title:** | Fountain Street Roadway and Related Improvements – Final Design | **Scenario:** | Main 2019 |
| **Asset Type:** | STREETS & ROADS | **Budget Status:** | Department Request |
| **Department:** | C4-422 - Highway | **Regions:** | |
| **Project Type:** | Roadway Infrastructure | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This project phase will complete the design of new sidewalk, an improved intersection and permanent traffic signal at Dudley Road, as well as roadway rehabilitation, drainage improvements, and some remaining sewer lining, following the FY2018 water main replacement and initial sewer main and drain pipe lining. Roadway and related construction, including a funding request, is anticipated for FY2020.

## Comments:

This final design will be implemented in formal agreement with the Parks Department, Keefe Tech and adjacent property and business owners.

## Justification:

This corridor has conflicting and inadequate transportation modes, particularly for students, other pedestrians and the disabled to and from Keefe Tech and Loring Arena, as well as buried drainage, sewer and water pipes in need of repair or replacement, and high velocity and poor quality runoff into the southwest corner of Farm Pond. Results will include increased safety and mobility, improved water quality and other natural resources at Farm Pond, and a more attractive corridor.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 210,000 | 0 | 210,000 |
| | **210,000** | **0** | **210,000** |

**Stantec Consulting Services Inc.**
5 Burlington Woods Drive Suite 210, Burlington MA 01803-4511

November 6, 2017
File: 179410453

**Attention: Matthew J. Hayes. P.E.**
**Senior Project Manager – Transportation**

Department of Public Works
110 Western Avenue
Framingham, MA 01702

Dear Matt,

**Reference: Fountain Street Roadway Improvements – FY19 Funding Request**

Stantec has prepared this letter to summarize anticipated funding needs in FY2019 for final design associated with roadway improvements on Fountain Street. This phase of the project will complete the design of new sidewalks, improved intersection geometry/installation of permanent traffic signal at Dudley Road, roadway rehabilitation, streetscape enhancements, and drainage/stormwater improvements currently developed to the 60% design stage. This phase of the project will also include some remaining sewer lining to be completed following water main replacement and initial sewer main/drain pipe lining work that is ongoing in FY2018. Construction of these roadway improvements and related utility work, including a funding request, is anticipated for FY2020.

This corridor has conflicting and inadequate transportation modes, particularly for students, other pedestrians and the disabled traveling to/from Keefe Tech and Loring Arena within the corrdior, as well as buried drainage, sewer and water pipes in need of repair or replacement, and high velocity and poor quality runoff into the southwest corner of Farm Pond. Results of the completed project will include increased safety and mobility for al transportation modes, improved water quality and other natural resources at Farm Pond, and a more attractive corridor.

Town infrastructure assets addressed under this project include:

- Installation of permanent traffic signal
- 2,650 LF roadway rehabilitation
- 3,650 LF new sidewalk
- 1,500 LF new drain pipe and channel (an additional 1,600 LF lined in prior “Utilities” phase)
- 1,700 LF sewer main to be lined (2,400 LF lined in prior phase)
- (3,500 LF water main replaced in prior phase)

This letter confirms the need for $210,000 in funding for the Fountain Street Roadway Improvements project in FY2019.

**Reference: Fountain Street Roadway Improvements – FY19 Funding Request**

Regards,

**STANTEC CONSULTING SERVICES INC.**

Frederick A. Moseley, P.E.
Principal
Phone: 781-221-1131
frederick.moseley@stantec.com

# FY2019 Recommended: Bond $188,655

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Highway/2019/A | **Budget Year:** | 2019 |
| **Project Title:** | Replace 3 Highway Rack/body/utility Trucks, #409, 418 and 419 | **Scenario:** | Main 2019 |
| **Asset Type:** | PICK UP TRUCKS | **Budget Status:** | Department Request |
| **Department:** | C7-422 - Highway | **Regions:** | |
| **Project Type:** | Public Works Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

- 2008, for stormwater system maintenance and repairs, #409, $68,393
- 2006, emergency response to Police and Fire, #418, $60,131
- 2006, daily signs and road markings, and emergency signage for Police and Fire, #419, $60,131

## Comments:

Service performance, pride of service and community support are all emphasized by DPW, with vehicle cleanliness an important expression of those, and a responsibility of DPW staff.

## Justification:

All of the existing vehicles being replaced will have exceeded 10 years in service when replaced (and sold), and nearly all are near to or over 100,000 miles or run-hours equivalent. Industry and Framingham DPW experience indicates that above those thresholds maintenance increases substantially to assure service reliability, as do major repairs, none of which provide a return on investment, and they are not sustainable with the current DPW facility and staffing. In addition to daily service for the various Divisions, they all are used for the Department's snow and ice management program, with many also used to respond to community events and emergencies. Snow plowing is particularly destructive to vehicles.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 188,655 | 0 | 188,655 |
| | **188,655** | **0** | **188,655** |

MHQ VEHICLES ■ EQUIPMENT ■ GEAR

# QUOTE

## CUSTOMER

| | | | |
|---|---|---|---|
| Contact Name: | Fred Davies | Date: | October 25, 2017 |
| Company/Dept: | Town of Framingham Department of Public Works | Valid for: | 60 Days* |
| Street Address: | 100 Western Ave. | Customer #: | 10141 |
| City, State, Zip: | Framingham, MA 01702 | Contract: | GBPC/BAPERN 201 |
| Phone: | 508-532-6070 | Sales Rep: | Greg Keith |
| E-Mail: | fjd@framinghamma.gov | | |

| CONTRACT LINE REFERENCE | LINE DESCRIPTION | | | |
|---|---|---|---|---|
| | | | | |
| F3F | 2018 Ford F350 SRW 4x4 cab chassis regular cab | | | |
| | 141" wheel base - 60" cab to axle | | | |
| | 6.2 liter V/8 gasoline engine | | | |
| | 6 speed automatic transmission | | | |
| | AM/FM stereo w/ clock | | | |
| | Spare tire on wheel | | | |
| 43C | 110V/400 Watt Power Outlet (1) | | | |
| LS | 40/MINI CONSOLE/40 vinyl seat (required for 43C) | | | |
| 473 | Snow Plow prep package | | | |
| 59H | Center high mount stop lamp | | | |
| | Factory upfitter switches | | | |
| 213 | Electronic shift on the fly four wheel drive | | | |
| 531 | Trailer tow package | | | |
| 18B | Factory cab steps - RC | | | |
| 90L | Heated mirrrors, power windows & door locks - | | | |
| SP101 | Factory special paint W6695F Yellow | | | |
| 2.04 | 8' Diamond/Meyer snow plow package | | | |
| | 8' Diamond/Meyer poly snow foil | | | |
| | 8' Diamond/Meyer cutting edge | | | |
| TDX | LT275/75RX18 BSW all terrain tires | | | |
| 64F | 18" heavy duty steel wheels | | | |
| N/A | Driver's door mounted incandescent spotlight | | | |
| 8.32 | 9' Fiberglass utility body - Yellow Gel Coat finish | | | |
| | Mobile Radio | | | |
| | Emergency/safety lights | | | |
| | | **TOTAL** | | **$60,131.00** |
| | | | | |

# QUOTE

**CUSTOMER**

Contact Name: Town of Framingham
Company/Dept: Department of Public Works
Street Address: 100 Western Ave.
City, State, Zip: Framingham, MA 01702
Phone: 508-532-6070
E-Mail: fjd@framinghamma.gov

Date: 10/30/2017
Valid for: 60 Days*
Customer #: 10141
Contract: GBPC/BAPERN 2015
Sales Rep: GAK

| CONTRACT LINE REFERENCE | LINE DESCRIPTION | UNIT PRICE | QTY. | EXTENDED PRICE |
|---|---|---|---|---|
| | | | | |
| F5H | 2018 F550 Chassis 4X4 Regular Cab 145" wb, 60" CA 18,000# GVWR | | | |
| | V10 gasoline engine | | | |
| SP101 | Factory Special Paint, W6695F Yellow | | | |
| | Four Wheel Drive with manual locking hubs | | | |
| | Automatic Transmission, AM/FM radio with digital clock | | | |
| | HD vinyl bench seat, HD vinyl flooring, and spare tire | | | |
| | Factory upfitter switches, spare tire on wheel | | | |
| 43C | 110V/400 Watt Power Outlet (1) | | | |
| 473 | Factory Snow Plow Prep | | | |
| X8L | 4:88 limited slip rear axle | | | |
| 62R | Transmission PTO provision | | | |
| 52B | Trailer brake controller | | | |
| 18B | Black molded running boards factory installed RC | | | |
| TGB | 225/70RX19.5 BSW Traction Tires, Front & Rear | | | |
| 68U | 19,000 Lb. GVWR Payload Upgrade, 60" CA Gas only | | | |
| 2.05 | Diamond/Meyer 9' snow plow w/ poly foil and steel bolt on edge | | | |
| 6.02 | Heavy duty 12'6" platform body with stake sides | | | |
| 6.08 | Steel bulkhead for platform body | | | |
| 6.13 | Diamond plate steel floor in lieu of wood | | | |
| 7.12 | Thieman 2,000# electric hydraulic aluminum lift gate- direct lift | | | |
| | Upgrade tailgate with rollers on slides | | | |
| | Upgrade tailgate with light kit | | | |
| 7.01 | 30" stainless steel under body toolbox | | | |
| 7.02 | Poly rear fenders, frame mounted (Light Duty Chassis) | | | |
| 7.07 | Reinforced plate mounted ball and pintle hook combination | | | |
| 7.05 | Trailer plug, wired | | | |
| 1.16 | Code 3 Electronic back up alarm # D450H | | | |
| N/A | Driver's door mounted incandescent spotlight | | | |
| N/A | Mobile Radio | | | |
| N/A | Emergency/safety lights | | | |
| | | | | |
| | | | TAX: | |
| | | | **TOTAL:** | **$68,393.00** |

**TERMS AND CONDITIONS**

**ORDER ACKNOWLEDGEMENT**

**By signing this document you are agreeing to the above terms and conditions of this order from MHQ, Inc.**

# FY2019 Recommended: Bond $90,000

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Sanitation/2019/B | **Budget Year:** | 2019 |
| **Project Title:** | Dudley Road Landfill Closure - CAAA Study | **Scenario:** | Main 2019 |
| **Asset Type:** | OPEN SPACE | **Budget Status:** | Department Request |
| **Department:** | C4-433 - Sanitation | **Regions:** | |
| **Project Type:** | Public Works Non-Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This funding will provide for the continuing investigation and evaluation of the Dudley Road Landfill that will assess the extent of environmental impacts and formal closure needs.

## Comments:

Formal landfill closure is a multistep process, and a result could require extensive construction and relocation of the current yard waste composting facility.

## Justification:

There is a continuing compliance assurance need for the landfill per the MassDEP Solid Waste Regulations. Failure to close the landfill in accordance with those Regulations could subject the City to fines, potentially dating back to cessation of landfill operations.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 90,000 | 0 | 90,000 |
| | **90,000** | **0** | **90,000** |

# FY2019 Recommended: Free Cash $84,000

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Sanitation/2019/A1 | **Budget Year:** | 2019 |
| **Project Title:** | Replace Sanitation Packer Arms | **Scenario:** | Main 2019 |
| **Asset Type:** | GARBAGE TRUCK | **Budget Status:** | Department Request |
| **Department:** | C7-433 - Sanitation | **Regions:** | |
| **Project Type:** | Public Works Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

**Description:**

Replace Sanitation packer truck arms, 4 at $21,000 each

**Comments:**

Complete failure of arms now appears possible, which would likely delay collection and increase costs.

**Justification:**

These arms are key to meeting collection schedules, and require increasing amount of maintenance and repair to assure they provide the tens of thousands of lifts needed per week.

**Description:**

**Comments:**

**Project Forecast**

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 84,000 | 0 | 84,000 |
| | **84,000** | **0** | **84,000** |

C.N. WOOD CO., INC.
CONTRACTORS' EQUIPMENT
200 Merrimac Street, Woburn, MA 01801
(781) 935-1919 Fax (781) 937-9809

**Avon, MA**
140 Wales Ave.
(508) 584-8484

**Whately, MA**
102 State Rd.
(413) 665-7009

**Johnston, RI**
60 Shun Pike
(401) 942-9191

**Westbrook, ME**
84B Warren Ave.
(207) 854-0615

**REMIT TO**
C.N. WOOD CO., INC.
DEPARTMENT 1660
P.O. BOX 4110
WOBURN, MA 01888-4110

| Account# | Work Ord | Brc | Sls |
|---|---|---|---|
| 031425 | | 001 | 00 |

S A L E S  O R D E R
E S T I M A T E

| Date | Time | Order # | Page |
|---|---|---|---|
| 11-15-17 | 11:27 | 752885 | 1 |

Sold To: 001
TOWN OF FRAMINGHAM
FLEET SERVICES
100 WESTERN AVE

FRAMINGHAM MA 01702-8306

Ship To:
TOWN OF FRAMINGHAM-HWY DEPT.
100 WESTERN AVE

FRAMINGHAM MA 01702

Ship Via

| Entered By | Customer Purchase Order | Customer Contact | Ord Date |
|---|---|---|---|
| PBurke | | | 11-15-17 |

| Model | Serial Number | Equip ID | Customer Job number | Customer Phone # |
|---|---|---|---|---|
| | | | | 1508-872-4391 |

| Ord | Ship | B/O | Mfg | Part Number | Description | Bin | Unit Price | UM | Extended |
|---|---|---|---|---|---|---|---|---|---|

WE ACCEPT VISA, MASTERCARD & AMEX

FREIGHT TO APPLY

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1 | Y | NW | 132265 | ..... | | 20,445.96 | Ea | 20,445.96 |

ASSY,VERT MAST,96 GAL,6X6,ASL USED IN PR

MASS Sales Tax Number - 0.00

CUSTOMER SIGNATURE_____
NO PARTS RETURNS AFTER 30 DAYS OF INVOICE

Total Amount 20,445.96

WOBURN HOURS: MONDAY - FRIDAY 6 AM TO 5 PM
SATURDAY 7 AM TO NOON

Total Weight 0.0

# FY2019 Recommended: Free Cash $70,932

| | | | |
|---|---|---|---|
| **Project Number:** | Library/Library/2019/A | **Budget Year:** | 2019 |
| **Project Title:** | New McAuliffe Branch Library Audio-Visual Systems Construction | **Scenario:** | Main 2019 |
| **Asset Type:** | STUDIO/VIDEO/CAMERA EQUIPMENT | **Budget Status:** | Department Request |
| **Department:** | C4-610 - Library | **Regions:** | Precinct 1, Precinct 2, Precinct 3, Precinct 4,... |
| **Project Type:** | Town Technology Hardware | **Active:** | Yes |
| **Year Identified:** | 2016 | **Manager:** | |
| **Start Date:** | Sep 1, 2018 | **Project Partner:** | |
| **Est. Completion Date:** | Oct 1, 2018 | | |

## Description:

This project will create an accessible, built-in audio-visual system in the Community Room of the McAuliffe Branch Library, for use by both library-sponsored programs and outside groups. It will consist of a ceiling-mounted projector, Blu-ray player, wired and wireless microphones, speakers, assistive listening devices, control systems, and other A/V equipment needed to create a cohesive, easy-to-operate system. The project also includes a projection screen for the McAuliffe Library Craft Room to allow A/V presentations in that meeting room, and portable speakers for outdoor events at the branch. Some modest physical changes to the Community Room will be required, which will require the assistance of Building Services.

## Comments:

When the branch library was built in 2016, it had no budget for audiovisual equipment other than a projection screen. The Community Room has proven to be an enormously popular location for meetings of all types, but the absence of a built-in A/V installation has proven quite troublesome. At the beginning of FY2019, the building will have been open for 29 months; it is time to fill this gap.

*Potential to use remaining funding from McAuliffe Library project - reduce appropriation request once confirmed

The amount required for this project is $79,932, of which $9,000 will come from MBLC State Aid, and $70,932 would be sourced from the General Fund/borrowing.

## Justification:

Completing this project will greatly improve the usability of the McAuliffe Branch's Community Room, as envisioned when the room was originally architected, by adding a high-quality, permanent, reliable audio-visual installation. Doing so will save staff time and avert disruption of services by obviating the need to manually configure and troubleshoot our existing ad-hoc, temperamental, A/V equipment. It will allow both staff and patrons to more easily run and enjoy presentations, performances, and other events, without the difficulty, limitations, and unpredictability associated with our temporary solution.

To provide patrons and staff with an interim method of hosting presentations, showing films, and amplifying audio, the library assembled an inexpensive, mobile "projector cart." This system was intended only as a stopgap, pending a permanent A/V installation. We estimate that the cart has been used for library-sponsored programs and outside group events approximately 100 times in the first 10 months of CY2017, including Town-sponsored training programs. However, there have been numerous, serious problems with this temporary solution.

The complete set of problems is detailed in the attached documentation (McAuliffe Community Room AV Capital Project Request), but in brief: The cart needs manual setup and breakdown by staff members, the public makes improper modifications to the cart configuration, technical problems are common, equipment has gotten lost, the cart consumes valuable floor space, and the wiring creates a tripping hazard. Most of these issues routinely threaten to derail important events, and interfere with normal library operations as staff must tend to unpredictable A/V issues.

In addition to the problems with the projector cart and associated logistics, there are also no built-in speakers in the Community Room. Our basic assistive listening system needs to be augmented. And we have limited wireless microphone support, which affects our ability to both host events with multiple performers, and the ability of hearing-impaired attendees to hear presenters/performers who might otherwise be fitted with microphones solely for assistive reasons.

Beyond the Community Room, events are also held in the Craft Room, but we lack a projection screen in that room. We also hold outdoor events at the McAuliffe Branch, and have been frequently borrowing luggable, battery-powered speakers from the Main Library, which is inefficient, so the Branch needs its own dedicated set of portable speakers.

## Comments:

# FY2019 Recommended: Free Cash $70,932

**Project Forecast**

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 79,932 | 0 | 79,932 |
| | **79,932** | **0** | **79,932** |

# McAuliffe Library Community Room use

**Note: Not all events used A/V Equipment, but most Outside Group events did**

**CALENDAR YEAR**

| 2017 | Outside Groups | Library Programs | Total Use |
|---|---|---|---|
| January | 15 | 10 | 25 |
| February | 10 | 9 | 19 |
| March | 18 | 5 | 23 |
| April | 20 | 8 | 28 |
| May | 15 | 12 | 27 |
| June | 13 | 12 | 25 |
| July | 6 | 11 | 17 |
| August | 7 | 19 | 26 |
| September | 8 | 12 | 20 |
| October | 11 | 15 | 26 |
| **TOTAL YTD** | **123** | **113** | **236** |

| 2016 | | Outside Groups | Library Programs | Total Use |
|---|---|---|---|---|
| January | | Not open | | |
| February | (16-28 only) | 2 | 2 | 4 |
| March | | 12 | 9 | 21 |
| April | | 10 | 13 | 23 |
| May | | 9 | 14 | 23 |
| June | | 13 | 13 | 26 |
| July | | 7 | 6 | 13 |
| August | | 7 | 13 | 20 |
| September | | 11 | 8 | 19 |
| October | | 7 | 7 | 14 |
| November | | 14 | 12 | 26 |
| December | | 13 | 10 | 23 |
| **TOTAL** | | **105** | **107** | **212** |

**FISCAL YEAR**

| FY17 (July '16-June '17) | Outside Groups | Library Programs | Total Use |
|---|---|---|---|
| July | 7 | 6 | 13 |
| August | 7 | 13 | 20 |
| September | 11 | 8 | 19 |
| October | 7 | 7 | 14 |
| November | 14 | 12 | 26 |
| December | 13 | 10 | 23 |
| January | 15 | 10 | 25 |
| February | 10 | 9 | 19 |
| March | 18 | 5 | 23 |
| April | 20 | 8 | 28 |
| May | 15 | 12 | 27 |
| June | 13 | 12 | 25 |
| **TOTAL YTD** | **150** | **112** | **262** |

| FY18 (July '17-Oct '17) | Outside Groups | Library Programs | Total Use |
|---|---|---|---|
| July | 6 | 11 | 17 |
| August | 7 | 19 | 26 |
| September | 8 | 12 | 20 |
| October | 11 | 15 | 26 |
| **TOTAL** | **32** | **57** | **89** |

| FY 16 (Feb '16-June '16) | | Outside Groups | Library Programs | Total Use |
|---|---|---|---|---|
| February | (16-28 only) | 2 | 2 | 4 |
| March | | 12 | 9 | 21 |
| April | | 10 | 13 | 23 |
| May | | 9 | 14 | 23 |
| June | | 13 | 13 | 26 |
| **TOTAL** | | 46 | 51 | 97 |

Powering ideas.

A PROPOSAL FOR

# THE MCAULIFFE LIBRARY

FRAMINGHAM, MASSACHUSETTS

## Community Room Presentation Upgrades

November 8, 2017

**Submitted by:**
HB Communications, Inc.
www.hbcommunications.com
800.243.4414

Powering ideas.

November 8, 2017

Mr. Alan Mandel
Supervisor of Technology
Framingham Public Library
746 Water Street
Framingham, MA 01701

Re: Community Room Presentation Upgrades

Dear Alan,

Thank you for inviting HB Communications, Inc. to submit a revised proposal for the presentation improvements required at the McAuliffe Library. Our proposal is based on our visits and meetings with you and your staff at the Library, as well as the internal discussions that have followed.

The pricing contained in the proposal was created using the Massachusetts OFF40 State Purchasing Contract guidelines for all equipment, materials, and services.

Please consider the benefits of working with HB — a company that has been in the industry for over 70 years. Our experience, attention to detail, and commitment to consistently deliver quality service has set us apart all these years.

We look forward to meeting with your project team to review this proposal at your earliest convenience.

Regards,

William Mintzer
Senior Account Executive
HB Communications, Inc.

*HB Communications, Inc. is an Affirmative Action/Equal Opportunity Employer*

**Corporate Office**
60 Dodge Avenue
North Haven, CT 06473
203.234.9246

**Boston Office**
1432 Main Street
Waltham, MA 02451
781.890.6046

**New York Office**
1130 Globe Avenue
Mountainside, NJ 07092
908.654.3600

**HB Communications UK, LTD**
11th Floor Beaufort House, 15 St. Botolph Street
London, EC3A 7BB, United Kingdom
+44 (0) 20 3102 6896

**Sales & Information**
800.243.4414
**Customer Service**
800.852.8441

hbcommunications.com

CT Lic. # ELC. 0200599-E1 RI Lic. # TSC–5110

# STATEMENT OF WORK

## Summary:

The Community Room at the McAuliffe Library in Framingham will require an HD projector for use with an existing ceiling recessed screen; the room is in need of some additional functionality and overall system upgrades. HB has been asked to design and implement upgrades to include a permanently mounted HD projector and room control system. We will include a new audio system with wireless microphones and ceiling speakers for reinforcement, as well as an expansion of the current assisted listening capabilities.

New equipment racks are included to house the components, and HB will work with the Library staff on the design and layout of the equipment. Our proposal also includes a screen for the adjacent Children's Craft Room, and portable audio system for general use.

## System Description:

The completed system must output to a fixed, ceiling mounted HD projector, projecting on to the OFE projection screen. Public must be able to connect a laptop via HDMI, VGA, or wirelessly via integrated wireless presentation gateway, to a rack-mounted PC and display movies via a controllable Blu-ray player.

Core system components shall reside within an equipment rack installed in the closet next to the kitchenette. Public facing equipment will be installed into a wall recessed equipment rack that will be installed in the wall between the current two closets.

A wall dock-able wireless control panel will be installed on the wall adjacent to equipment rack closet. Control panel will remained locked in dock and require user password to undock. Control system will be added to the Library LAN to allow staff access to control system via web-browser (xPanel).

Systems sources shall include:

- AV system inputs:
  - HDMI and VGA with 1/8" analog audio input. Input panel will be installed under windows to right of projection screen. Input connection shall require two-gang electrical back box with 1 and ¼" conduit installed in wall below window between back box and closet which is closest to the windows.
  - Two 1/8" auxiliary audio inputs for use with personal music players such as iPods, and cellular phones with standard headphone jacks
    - One Auxiliary input connector shall be installed on custom rack panel installed on 'in-wall' equipment rack. In wall equipment rack is described in more detail below, but will be mounted in such a way as to be accessible by community members using the space.
    - The other auxiliary input connector shall be mounted with other AV connectors below the windows.
  - Auxiliary AV inputs for legacy equipment
    - Auxiliary AV connectors shall be RCA connectors labeled for Composite video and Stereo Left / Right audio connections.
    - Auxiliary AV connectors shall be installed on custom rack panel installed on 'in-wall' equipment rack.
  - Auxiliary microphone and line inputs on input plate installed on wall below windows with other AV connections
    - Two (2) Microphone inputs shall be on female XLR connectors
    - Two (2) Line inputs shall be stereo Left / Right connectors on balanced ¼" TRS connectors
      - Line input connections here are provide for use when an out-board audio mixer is required by meetings/events where more and different microphone types are required beyond the wireless microphones provide below.

- Blu-Ray player;
    - Blu-ray player shall be accessible to public and installed in 'in-wall' equipment rack
    - Blu-ray player 'transport' controls (remote functions) shall be replicated on control system touch panel
    - A 'cold spare' Blu-ray player matching the model provide above will be provide for library staff to be able to swap out if a member of the public damages the primary player.
- "Room PC" provided by the Library shall be installed in equipment rack installed in closet
    - If Room PC is not rack mountable, it will be secured to a rack shelf when installed in the equipment rack.
    - Room PC shall have 'RF' wireless key board and mouse to be controlled by room users.
    - Room PC shall have user accessible USB connections installed in custom rack panel installed on 'in-wall' equipment rack.
- Cable TV - a cable set top box provided by the Library shall be connected to the system
    - Control system touch panel shall provide controls for cable box including Channel up / down and manual channel inputs.
- Wireless presentation – the system shall provide a means for wirelessly presenting from mobile devices, including iOS, Android and laptop devices. Wireless presentation system will provide system splash screen with access instructions and a unique randomly generated pin to prevent access by individuals outside of the room.
- Spare HDMI input will be installed in equipment rack.
- Input to AV system from remote room (Costin Room).

- Audio sub system requirements:
    - Six wireless microphones consisting of:
        - Three handheld microphones.
        - Three lavalier microphones with wireless belt packs.
    - Loud speakers consisting of:
        - Two (2) program speakers, mounted on soffit above windows to left and right of screen providing audio for presentation materials including Blu-ray system.
        - Four (4) Ceiling speaker for voice lift / sound reinforcement.
    - Audio Digital Signal Processor (DSP) will provide audio mixing and processing for sound system:
        - A VOIP card will be installed in DSP – this feature will not be implemented with the initial deployment, but functionality may be added at future day via programming and DSP Code updates.
            - NOTE: VOIP card is directly compatible with specific VOIP systems. A list of support systems will be provided; any VOIP system not specifically listed may require additional bridging hardware when implemented.
            - Compatible VOIP systems may be found at the following hyperlink: https://support.biamp.com/Tesira/VoIP
    - Assisted Listening System (ALS) shall utilize existing belt packs by Williams Sound, a permanent RF ALS transmitter shall be installed in equipment rack:
        - RF antenna will be surface mounted to wall above closet door.
        - ALS system shall be compatible with existing belt packs, model number R37.
        - ALS system should support eight users, Framingham currently possesses 4 receivers.
        - Two additional neck loops shall be provided.
    - Two floor stands and two table top stands will be provide for use with the hand held microphones. Two (2) hand held microphones and with 25' microphone cords will be provided.
- System outputs:
    - System shall output HD signal to ceiling mounted projector.
    - System presentation feed should output to broadcast plate.

- Control system, additional details:
    - Control system touch panel will have initial splash screen with one-touch 'buttons' for most common room uses. Tapping one of these buttons will turn on projector, drop down screen, and switch AV system router to appropriate input. Touch panel will switch to display any appropriate source controls (e.g. transport controls for Blu-ray payer).
    - Touch panel will have separate speech and program volume controls. These will allow independent volume control of microphone mix or program volume. These will controls will have independent mutes including video mute function for projector.
    - Control system will have advanced page behind pass-word protection that allows for advanced controls such as:
        - Individual mic controls allowing for mix levels for individual mics, auxiliary mic inputs and line inputs.
        - Independent screen control function (up/down).
- Equipment Racks:
    - Two equipment racks will be provide for the system,
        - The primary equipment rack shall be 40 Rack spaces tall, 27 inches deep mounted on Casters and include a locking vented front door. The primary rack shall be located in the closet space closest to the kitchenette
        - The secondary rack shall be mounted in wall between the two closets in such a way that it is accessible to community members using the room and at a height that is ADA compliant. The wall mounted rack shall be 10 Rack spaces tall, and will be mounted in the rough opening in such a way that the rack can be slid out so that equipment can be services.
            - Rough opening shall accommodate the following minimum dimensions:
                - Depth (US): 18.75
                - Height (US): 19.26
                - Width (US): 19.06
            - Rough opening shall not be closed off above to allow equipment heat to dissipate.
- Other:
    - A manual, wall-mounted projection screen with a wood veneer matching the room trim shall be provided for the children's craft room.
    - A battery powered audio PA system shall be provide for general use outside of the common room.

Additional notes, site requirements:

- City of Framingham will be responsible for installing two-gang back box and conduit below windows and patching any holes created as a result.
- City of Framingham will be responsible for cutting and framing an opening for wall recessed equipment rack, rough opening should not be completely enclosed above and allow any equipment generated heat to escape into the plenum.
- City of Framingham will be responsible for providing power for AV equipment including:
    - Wall recessed equipment rack.
    - Equipment rack installed in closet.
    - In ceiling at projector location.
    - Wall mounted projector in Children's craft room
- City of Framingham shall provide any required networking information or requirements affecting AV system (e.g. IP addresses, Subnet Mask, Gateway) which will allow xPanel access by library staff members.

# PRICING

| Item | Qty | Manufacturer | Model | Description | MSRP | Discount | Unit | Total |
|---|---|---|---|---|---|---|---|---|
| | | | | **Equipment** | | | | |
| 1 | 1 | Sony | VPL-CH370/W | 5000 Lumen WUXGA LCD Projector | 3,380.00 | 15.00% | 2,873.00 | 2,873.00 |
| 2 | 1 | Chief | CMS492C | Ceiling Tile Back Box Enclosure | 672.00 | 30.00% | 471.00 | 471.00 |
| 3 | 1 | Chief | RSMAUS | Projector Mounting Hardware | 237.00 | 30.00% | 166.00 | 166.00 |
| 4 | 1 | HB | Custom | Miscellaneous Mounting Hardware | 400.00 | 10.00% | 360.00 | 360.00 |
| 5 | 1 | Crestron | DM-RMC-4K-100-C | DigitalMedia 8G+ Receiver and Room Controller for Projector | 900.00 | 35.00% | 585.00 | 585.00 |
| 6 | 1 | Draper | ACLE28-79 | **OFE** - 10-Foot Wide Motorized Projection Screen | | | **OFE** | **OFE** |
| 7 | 1 | Crestron | DM-TX-200-C-2G-W-T | DigitalMedia 8G+ Transmitter 200, White Input Plate | 1,400.00 | 35.00% | 910.00 | 910.00 |
| 8 | 1 | Crestron | DMPS3-4K-300-C | 3-Series DigitalMedia Presentation Switcher / Control System | 10,000.00 | 35.00% | 6,500.00 | 6,500.00 |
| 9 | 1 | Crestron | TSW-760-W-S | 7" Touch Screen, White | 1,400.00 | 35.00% | 910.00 | 910.00 |
| 10 | 1 | Netgear | GS728TP-100NAS | ProSAFE GS728TP 24-Port Gigabit PoE Smart Managed Switch | 599.00 | 10.00% | 540.00 | 540.00 |
| 11 | 2 | Denon | DN-500BDMKII | Blu-ray/DVD/CD Player with 7.1 Output and RS-232C | 399.00 | 15.00% | 340.00 | 680.00 |
| 12 | 1 | Crestron | DM-TX-201-C | DigitalMedia 8G+ Transmitter 202 | 1,300.00 | 35.00% | 845.00 | 845.00 |
| 13 | 1 | HB | Custom | Custom Rack Plate with Composite Video Inputs | 450.00 | 10.00% | 405.00 | 405.00 |
| 14 | 1 | Crestron | DMC-VID-RCA-A | Composite to HDMI XVTR | 650.00 | 35.00% | 423.00 | 423.00 |
| 15 | 1 | Crestron | DMCI | DigitalMedia™ Card Interface for above | 400.00 | 35.00% | 260.00 | 260.00 |
| 16 | 1 | TBD | **OFE** | Owner Furnished PC for Equipment Rack | | | **OFE** | **OFE** |
| 17 | 1 | UPS | MSFT-2LF-00001 | Wireless Desktop 850 Keyboard and Mouse | 69.00 | 10.00% | 63.00 | 63.00 |
| 18 | 1 | Extron | 60-1471-12 | Twisted Pair Extender for USB Peripherals - Transmitter | 690.00 | 35.00% | 449.00 | 449.00 |
| 19 | 1 | Extron | 60-1471-13 | Twisted Pair Extender for USB Peripherals - Receiver | 690.00 | 35.00% | 449.00 | 449.00 |
| 20 | 1 | Crestron | AM-101 | Crestron AirMedia Wireless Presentation Gateway | 1,600.00 | 35.00% | 1,040.00 | 1,040.00 |
| 21 | 1 | AJA | Hi5-Plus | SDI to HDMI Mini-Converter | 395.00 | 10.00% | 356.00 | 356.00 |
| 22 | 1 | AJA | HA5-Plus | HDMI to SDI Mini-Converter | 395.00 | 10.00% | 356.00 | 356.00 |
| 23 | 1 | OFE | Cable Box | **OFE** - Provided Cable Box with HDMI Output | | | **OFE** | **OFE** |
| 24 | 3 | Shure | MXW2/SM58 | Handheld Transmitter with SM58 Microphone | 716.00 | 20.00% | 573.00 | 1,719.00 |
| 25 | 3 | Shure | MXW1/0 | Bodypack Transmitter Lavalier Base | 698.00 | 20.00% | 559.00 | 1,677.00 |
| 26 | 3 | Shure | WL184 | Microflex Supercardioid Lavalier Microphone | 133.00 | 20.00% | 107.00 | 321.00 |
| 27 | 1 | Shure | MXWAPT8 | 8-Channel Access Point Transceiver | 4,260.00 | 20.00% | 3,408.00 | 3,408.00 |
| 28 | 1 | Shure | MXWANI8 | 8-Channel Network Interface | 1,560.00 | 20.00% | 1,248.00 | 1,248.00 |
| 29 | 1 | Shure | MXWNCS8 | 8-Channel Networked Charging Station | 2,220.00 | 20.00% | 1,776.00 | 1,776.00 |
| 30 | 2 | Shure | SM58-CN | Cardioid Dynamic Handheld Microphone with 25-Foot XLR Cable | 136.00 | 20.00% | 109.00 | 218.00 |
| 31 | 2 | DS7200B | On Stage | Table-top Microphone Stand - Black - Range 9"-13" | 23.00 | 25.00% | 18.00 | 36.00 |
| 32 | 2 | MS-20E | Atlas Sound | Heavy Duty Microphone Floor Stand - Black - Range 37"-66" | 128.00 | 30.00% | 90.00 | 180.00 |
| 33 | 1 | Biamp | Tesira SERVER-IO AVB | Audio DSP Frame | 5,990.00 | 25.00% | 4,493.00 | 4,493.00 |
| 34 | 1 | Biamp | SEC-4 | 4-Ch Mic/Line Input Card with Acoustic Echo Cancellation | 650.00 | 25.00% | 488.00 | 488.00 |
| 35 | 4 | Biamp | SIC-4 | Tesira 4-Channel Mic/Line Input Card | 295.00 | 25.00% | 222.00 | 888.00 |
| 36 | 1 | Biamp | SVC-2 | Tesira 2-Line VoIP Telephone Interface Card | 525.00 | 25.00% | 394.00 | 394.00 |
| 37 | 2 | Biamp | SOC-4 | Tesira 4-Channel Mic/Line Output Card | 265.00 | 25.00% | 199.00 | 398.00 |
| 38 | 1 | Williams Sound | PPA T45 | Large-area FM Base-station Assisted Listening Transmitter | 834.00 | 25.00% | 626.00 | 626.00 |
| 39 | 1 | Williams Sound | RPK 005 | Rackmount Kit | 62.00 | 25.00% | 47.00 | 47.00 |
| 40 | 1 | Williams Sound | ANT 034 | Remote Antenna Extension | 102.00 | 25.00% | 77.00 | 77.00 |
| 41 | 4 | Williams Sound | PPA R37 | Intelligent DSP RF Receiver (72 MHz) - 4 Additional Per System | 123.00 | 25.00% | 93.00 | 372.00 |
| 42 | 4 | Williams Sound | NKL 001 | Assited Listening Neckloop - 18-Inch Cord - 3.5mm Plug | 51.00 | 25.00% | 39.00 | 156.00 |
| 43 | 1 | Crown | DCi 4\|300 | 4-Channel Amplifier | 2,198.00 | 25.00% | 1,649.00 | 1,649.00 |
| 44 | 1 | Sonance | PS-S63T | Left and Right Program Speakers - Pair - White | 440.00 | 10.00% | 396.00 | 396.00 |
| 45 | 2 | Sonance | S6 | Mounting Bracket for Above | 35.00 | 10.00% | 32.00 | 64.00 |
| 46 | 4 | Sonance | PS-C63RT | 6.5" Ceiling Speakers | 180.00 | 10.00% | 162.00 | 648.00 |

# PRICING CONTINUED

| Item | Qty | Manufacturer | Model | Description | MSRP | Discount | Unit | Total |
|---|---|---|---|---|---|---|---|---|
| 47 | 1 | HB Custom | Wall Plate | Custom Wall Plate; Auxiliary Audio Inputs | 450.00 | 10.00% | 405.00 | 405.00 |
| 48 | 1 | HB Custom | Wall Plate | Custom Wall Plate; Outputs to Broadcast System | 400.00 | 10.00% | 360.00 | 360.00 |
| 49 | 1 | Artel | 3350-B7L | Fiberlink Single Mode Fiber Transmitter - LC | 995.00 | 5.00% | 946.00 | 946.00 |
| 50 | 1 | Artel | 3351-B7I | Fiberlink Single Mode Fiber Receiver - LC | 995.00 | 5.00% | 946.00 | 946.00 |
| 51 | 1 | Middle Atlantic | WRK-40-27LRD | 40 Space, 27" Deep Equipment Rack | 1,387.00 | 35.00% | 902.00 | 902.00 |
| 52 | 1 | Middle Atlantic | LVFD-40 | Vented Front Door, 40 RU Racks | 543.00 | 35.00% | 353.00 | 353.00 |
| 53 | 1 | Middle Atlantic | SPN-40-267 | Side Panels | 593.00 | 35.00% | 386.00 | 386.00 |
| 54 | 1 | Middle Atlantic | CBS-WRK-27 | Rack Caster Base | 221.00 | 35.00% | 144.00 | 144.00 |
| 55 | 1 | Middle Atlantic | PD-915R | Rack Power Strip | 151.00 | 35.00% | 99.00 | 99.00 |
| 56 | 1 | Middle Atlantic | SRS2-10 | Wall Mounted Recessed Rack | 629.00 | 35.00% | 409.00 | 409.00 |
| 57 | 1 | Middle Atlantic | PD-715SC-NS | Slim Rackmount Power Strip - 7-Outlet | 116.00 | 35.00% | 76.00 | 76.00 |
| 58 | 1 | Middle Atlantic | SSL | Sliding Rack Shelf, 1 RU, Laminated | 136.00 | 35.00% | 89.00 | 89.00 |
| 59 | 1 | Middle Atlantic | D3LK | Drawer, 3 RU, Anodized, w/Lock | 286.00 | 35.00% | 186.00 | 186.00 |
| 60 | 1 | Dalite | 94361 | Wall Mounted 16:9 Manual Screen with CSR - White - 8 Foot | 686.00 | 20.00% | 549.00 | 549.00 |
| 61 | 1 | Dalite | VN | Wood Veneer Case to Match Room Trim | 417.00 | 20.00% | 334.00 | 334.00 |
| 62 | 1 | Anchor Audio | GG-DP-AIR | Go Getter Deluxe Air Package - Dual Speakers on Stands | 2,140.00 | 20.00% | 1,712.00 | 1,712.00 |
| | | | | - Wireless Mic and Battery Powered Speaker | | | | |
| 63 | 1 | HB | Materials | Cables, Connectors, Hardware, etc. | 6,590.00 | 10.00% | 5,931.00 | 5,931.00 |
| | | | | **TOTAL EQUIPMENT:** | | | | **$53,747.00** |

| | | | **Technical Services** | |
|---|---|---|---|---|
| 1 | HB | Engineering | System Design and Engineering | 2,000.00 |
| 2 | HB | Drafting | Drafting and Documentation | 2,100.00 |
| 3 | HB | Pre-installation | Shop Assembly and Testing | 4,730.00 |
| 4 | HB | Programming | System Programming | 4,180.00 |
| 5 | HB | Installation | On-site Installation, Testing, and Training | 9,750.00 |
| 6 | HB | Project Management | Project Management and Site Coordination | 2,520.00 |
| 7 | HB | G&A | General Administration | NA |
| 8 | HB | Freight | Shipping and Freight - In/Out | 905.00 |
| 9 | HB | Site Warranty | 6-Months, See Terms | No Charge |

| | |
|---|---|
| **TOTAL NON-EQUIPMENT:** | **$26,185.00** |
| **TOTAL PROJECT - excluding applicable taxes:** | **$79,932.00** |
| Sales tax | TE |
| **TOTAL PROJECT INCLUDING TAX:** | **$79,932.00** |

* Prices shown are good for 30 days

# PAYMENT TERMS & CONDITIONS

A written contract, purchase order, or other acceptable authorization to proceed must be received prior to the start of all work. HB will submit an initial invoice covering engineering/design services and any initial procurement. The value of this mobilization charge will equal approximately 30% of the entire project value; the invoice is due 'Net 15'.

Each month for the duration of the project, HB will issue a progress billing invoice representing charges for all costs incurred to date, including labor and all goods "bought and stored". Verification of goods received and stored at our facilities will be supplied upon request. Verification may be in the form of receiving records, serial numbers, photographs, personal inspection or other agreeable format.

## Insurance

- An insurance certificate detailing typical coverage will be furnished upon request
- Any additional coverage, if required, will be billed at cost

## Taxes

The Customer shall be responsible for the payment of all sales, use and excise taxes, and any other similar taxes, duties and charges of any kind imposed by any federal, state or local governmental entity on any amounts payable by Customer for the Deliverables and/or Services purchased hereunder whether remitted to HB or directly to the appropriate taxing authority. However, in no event shall the Customer pay or be responsible for any taxes imposed on, or with respect to, HB's income, revenues, gross receipts, personnel or real or personal property or other assets.

# STANDARD TERMS & CONDITIONS

## Millwork

All millwork shall be supplied by the Customer, unless specifically identified on the accompanying equipment list. It is the responsibility of the Customer and/or its agents to fabricate the millwork pieces to conform to all dimensional, electrical and thermal requirements.

## Blocking/Supports

All in-wall blocking required to support AV equipment or displays shall be furnished and installed by others.

## Loudspeaker Rigging

HB assumes that all loudspeaker rigging attachment points to base building structure will be engineered and installed by others. Rigging hardware included in this offering is limited to hardware attached to the loudspeaker for purposes of flying and aiming the loudspeaker, vertical cables and shackles or other hardware to attach to structural hanging points by others. No horizontal structural steel is included.

## Data, Telecom and VoIP Wiring and Networks

All client network, Ethernet, analog telephone, and other infrastructure wiring required to complete the AV systems functional requirements is the responsibility of the Client. Client WAN, LAN, VLAN, VoIP, analog (POTS) networks, both wired and wireless, as well as any other required networks, must be fully configured and operational at the time of system setup and commissioning. It is assumed that the Client will supply the necessary wiring, information and technical support required to facilitate interfacing their network(s) with the AV system(s). In the event that the client fails to provide the aforementioned requirements in a timely manner and that failure effects the efficient completion of the project, (i) HB will be held harmless for systems that do not meet scheduling requirements and (ii) costs associated with delays and inefficiencies including additional hours or overtime labor rates, shall be considered outside the scope of this offering and will be billable to the Client.

## Phasing and Grounding

All 120-volt AC receptacles and power purposed with feed to all equipment must be independent ground and same phase. If HB discovers improper phasing or grounding to be the cause of functional anomalies, Customer will remedy without penalty or cost to HB.

## Vibration, Ambient Noise and Acoustics

Excessive vibration may cause certain equipment (i.e., ceiling-mounted video projectors and microphones) to malfunction. Conference and recording systems, which employ open microphones, may not perform properly if excessive ambient noise or reverb is present. If any of these conditions exist, HB will be held harmless; costs associated with remedy of these conditions will be considered billable to the Customer.

## Delivery and Acceptance

The Customer agrees to designate a representative who will have the authority to sign for delivery of equipment. Customer is responsible for the security and loss liability of all delivered equipment. Acceptance of delivery does not imply that systems have been accepted as functional. Unless other arrangements are made, a secure, lockable space will be furnished for storage of equipment and material.

## Low Voltage Interfaces

Only those low voltage interfaces specifically included on the attached equipment list are included in this offering. All owner furnished equipment is assumed to be supplied with the appropriate low voltage interface and low voltage interfaces required to connect to any systems furnished and/or installed by others, are assumed to be supplied by the contractor.

## Seismic Certification & Compliance

The cost of any seismic studies or remedies required by local or state-building codes is not included in this proposal.

## Labor Costs

All labor costs included in this offering are based on use of HB staff, non-union personnel. All labor costs are calculated as straight-time during normal business hours, and using the MA OFF40 State Contract Guidelines. Requirement for union or overtime rates are considered additional to this offering.

## Schedule

If, through no fault of HB, the agreed upon installation schedule changes, HB will exercise its best efforts to accommodate the new schedule. Any costs associated with schedule changes are considered outside of the scope of this offering and will be negotiated as required.

## Completion and Test

The project schedule must allow sufficient time for completion of all installation and final testing of systems prior to occupancy of the site. If sufficient time is not allowed, HB will be held harmless for systems that do not meet requirements. In this case, all costs associated with completion of work, including overtime labor rates, will be considered outside the scope of this offering and billable to the Customer.

## Plenum Rating

Cable and equipment to be installed in air handling spaces is plenum rated as required by code. All other cable is priced as non-plenum.

## Restocking Fees

Any equipment ordered for the project and then returned at the discretion of the Customer may be subject to manufacturer approval to return and will be subject to a 25% restocking fee.

## Software License

Source code for all software developed within the scope of this offering remains the property of HB. Licensing terms are available upon request.

## Updates to Existing Control Code

Updates of any existing control system that was not programmed by HB requires the most current, un-compiled source code for both the control processor and any and all of the touch panels connected to the system be provided to HB. If not available code will have to be re-written at additional cost, not included in this proposal.

## Owner Furnished Equipment (OFE)

All equipment furnished by the Customer, whether new or used, is presumed to meet original specifications and functionality. If any OFE does not meet specifications, cost of all remedies will be borne by the Customer.

## Screen Installations

The customer will be responsible for all construction, finishing, and electrical costs associated with the installation of projection screens, both rear screen and ceiling/wall mounted.

## Wall or Ceiling Finish Work

The customer will assume responsibility for repairing, patching and painting all walls or ceiling finishes that may be disturbed as the result of penetrations and mounting procedures.

## Site Installation

Typical delivery is (8) eight weeks to (10) ten weeks.

## Permits

The cost of any building permits required by any municipalities will be passed on to the owner.

# WARRANTY

All equipment contained in this system includes and is governed by a manufacturer's warranty. All manufacturers' warranties are honored and serviced. HB warrants all system installations for six months. Standard Warranty includes the workmanship and labor provided by HB Communications and all of its subcontractors covering the scope of work included in this proposal.

During the six months, HB will provide all necessary labor required to repair or replace any defects in workmanship, cabling, connectors, equipment mounting, software and all other "non-equipment" related systems installed under the contract.

System warranty shall include the coverage of all equipment, specific to each manufacturer's warranty for each product included in the contract.

## Service & Response Times

Scheduled service shall be performed for corrective service and emergency maintenance and then only during normal business hours during normal business days. Normal business hours shall be from 8:00 AM to 5:00 PM and normal business days Monday through Friday, national and local holidays accepted.

HB makes every effort possible to respond to customers' needs as quickly as possible. Response time from a customer's initial call for emergency service is usually within two (2) hours for telephone response and twenty-four (24) hours for on-site service.

## Exclusions

Unless otherwise covered under a manufacturer's warranty, the remedy of failure caused by the following is excluded from the Warranty: normal use and wear, hazardous environmental conditions, continual use in excess of manufacturer's recommendations and alteration of the system or any of its component parts.

Customer shall be responsible for the costs of any repair or replacement parts resulting from exposure of the equipment to abnormal acts or operating conditions over and above expected wear and tear such as fire, storm, lightning, theft, physical abuse, mishandling, vandalism, acts of God, or other causes beyond the reasonable control of HB, for use of a product in an application other than what the unit was intended for or attempted repairs by anyone other than HB's personnel or designated agent.

Such repair or replacement, when requested by the Customer, will be done by HB and billed to the Customer at the published rate, including parts and labor. HB's standard field service rate is $140.00 per hour during normal business hours, portal to portal, with a minimum charge of four hours.

## Warranty Period

The warranty period shall begin when the client receives beneficial use of the system, or at final acceptance, whichever comes first.

## Extended Warranty and Warranty Options

Customer may choose to extend the duration of the Standard Warranty, improve on Service & Response Time commitments, or request that Preventive Maintenance be performed during the warranty period. These options can be provided at an additional charge and include:

- Extend duration of Standard Warranty
- Response Time Commitment of Next Business Day
- Response Time Commitment of Four (4) Hour response to Critical Incident
- Preventive Maintenance Visits – One or more preventive service visits during the Warranty Term.

# SERVICE AGREEMENTS

Upon expiration of the Standard Warranty period, future service by HB is provided under Time and Materials terms and fees applicable at that time unless Customer engages in a Service Agreement. The benefit of HB Service Agreements is that HB will continue to warrant the workmanship and labor, provide Service Level Agreement (SLA) response time commitments, and include an agreed upon number of Preventive Maintenance Visits during the term of the contract.

## Service Level Agreements (SLA)

HB offers three maintenance agreements based on varying degrees of service and response times. Of course, plans can be customized to individual circumstances and needs. Agreements are typically entered into for one to three years. As an example, a typical Silver Service Agreement with average coverage for the equipment contained in this proposal would be priced at $3,147.00 for a single year.

| | PLATINUM | GOLD | SILVER |
|---|---|---|---|
| Emergency call back | 1 hour | 1 hour | 1 hour |
| On-site visit after initial call | 4 hours (24/7) | 1 business day | 2 business days |
| Preventive maintenance visits | 4 visits/year | 2 visits/year | 1 visit/year |
| Loaner projector(s)/display(s) | Yes | Yes | No |
| Onsite emergency visits | Unlimited | Unlimited | Unlimited |
| Training for all equipment | Unlimited | Unlimited | No |
| Advanced parts replacement | 24 hours for most major hardware | 2 business days | Standard ground shipping |
| Access to video test facilities | 24 hours (scheduling ahead required) | During regular business hours | No |
| System functionality guarantee | Yes | Yes | Yes |
| Phone support | Unlimited | Unlimited | Unlimited |
| Rental and event support service can be provided through HB Group | Available | Available | Available |

## Strategic Staffing Services

Under an HB Staffing Agreement, HB assigns each Customer one or more HB Audio Visual Support Specialist (AVSS) to assist in the use and operation of the systems at the customer facility. HB Staff Technicians are an extension of our client's staff and report daily to their assigned client site. They are typically responsible for ongoing support for the use and functionality of audio and video technology, providing support for users, meeting and events, and may be involved in the planning and implementation of change or new installation of AV, Video, or related solutions at the client location.

# ROOM READINESS

The following describes the physical conditions we require at the site in order to bring equipment into the designated area. These "room ready" conditions have been developed to insure proper site conditions that pose no compromise to the proper operation and performance of the equipment. Further, they will allow our installers to work at maximum efficiency insuring timely completion. Where reasonable or possible:

## Conduit

Prior to commencement of work by HB, Customer will assure that adequate cable pathways or conduit are furnished. All conduit may not exceed 40% fill per NEC standards. If HB discovers insufficient conduit capacity, Customer will remedy without penalty or cost to HB.

## 120-Volt Power

All permanent 120-volt AC power and work is the responsibility of the Customer and must be in place. This includes the electrical connection to any electric projection screens. All receptacles must be properly grounded per NEC requirements, and all circuits must be of sufficient capacity to provide full turn on power to all system racks without tripping breakers. Location of all 120-volt receptacles must be within reasonable and logical proximity of equipment.

## Equipment Delivery

Prior to the delivery of all equipment and electronics, all spaces are "broom-clean" and the site is free of dust and dirt. All construction, including drywall, painting, ceilings, flooring and millwork is complete. If, at the discretion of the Customer, equipment is brought to site before it is clean, functionality, longevity and warranties may be compromised.

## OSHA Requirements

Prior to commencement of work by HB, the job site must meet OSHA requirements for a healthful workplace. Appropriate safety policies should be set, maintained, and enforced by all work forces.

# CLOSEOUT PROCESS

In order to ensure that the client will be satisfied with a complete project, HB has developed a Closeout Process. This process ties up any loose ends ensuring that the project is complete.

## Final Testing

HB will complete final termination, testing and "de-bugging" of installed systems.

## Documentation

All documents referring to the project including spec sheets are handed over to the client for their records.

## Equipment Manuals

HB will provide sets of equipment manuals for each piece of equipment in your project.

These manuals can be hardcopy and available on CD.

## Training

After equipment has been installed, HB will train the client end users on how to use the systems. Training is scheduled based on the customer's schedule.

## Installation Sign-Off

HB utilizes an "Installation Sign-Off" form to signify project completion.

This document provides a mechanism for the Owner to acknowledge completion or receipt of beneficial use of the system or to identify performance exceptions to the system.

HB is able to remedy such exceptions on a timely basis and then identifies the beginning of the warranty period.

## Portfolio Consideration

Each client project is important to us and many showcase our quality of work. After project completion, with client's approval, HB will schedule a photo shoot featuring the recently installed technology.

In some instances, a formal case study will also be written and posted online or appear in HB marketing materials.

All photos will be available to the client upon request.

**Christa McAuliffe Branch Library Community Room A/V Project**
**Capital Budget Proposal FY2019**
*11/13/2017*
*Mark Contois; Alan Mandel*

This is a Capital project proposal to install a permanent audio-visual system in the Community Room of the Christa McAuliffe Branch Library. The amount required for this project is $79,932, of which $9,000 will come from MBLC State Aid, and $70,932 would be sourced from the General Fund/borrowing.

## Overview

When the branch library was built in 2016, it had no budget for audiovisual equipment other than a projection screen. The Community Room has proven to be an enormously popular location for meetings of all types, but the absence of a built-in A/V installation has proven quite troublesome. At the beginning of FY2019, the building will have been open for 29 months; it is time to fill this gap.

To provide patrons and staff with an interim method of hosting presentations, showing films, and amplifying audio, the library assembled a mobile "projector cart." This cart contains a video projector, laptop, Blu-ray player, and speakers. This has been supplemented with various cables, adapters, microphones and other audio-related devices, as well as a basic assistive listening system for hearing-impaired attendees.

The Community Room is heavily-used for A/V purposes; we estimate that approximately 100 such programs[1] (either library-sponsored or for outside groups) have taken place in the first 10 months of 2017. Town/City-sponsored training sessions have also taken place in the Community Room.

The McAuliffe projector cart was intended only as a temporary solution pending the installation of a robust built-in A/V system. The most notable problems with the existing ad-hoc projector cart system include:

- The cart needs to be set up for each event, and stowed securely afterwards. Each step consumes staff time and requires expertise.
- In some cases, the A/V setup is not completely intuitive, so time and care are required. Not all staff have adequate training to set up the cart. Last-second technical problems are common, and suddenly pulling staff from other duties is disruptive, and creates ripple effects elsewhere in the library, ultimately inconveniencing library patrons and detracting from customer service.

[1] See spreadsheet CommunityRoomUsage-2016-2017.xlsx for details on Community Room usage for library-sponsored events and outside groups.

This is particularly troublesome when events take place early or late, when the few staff members present must interrupt both routine and time-critical tasks to tend to unexpected A/V issues.

- The cart must be formally and carefully checked in and checked out to outside groups to foster accountability. This not only takes time, but also creates significant logistical hurdles. When programs end in the evening, the library is typically lightly staffed, often with substitute personnel who have little or no A/V experience. And when an outside group needs to begin their meeting before the library opens, or finishes their meeting after closing time, there is no staff at all to instruct, assist, or monitor usage of the cart.
- The cart has many connections and parts of it are fragile. Patrons or staff who are unfamiliar with it can easily misconfigure the equipment, or even damage it. This has been a particular challenge when outside groups start their meetings early (prior to staff arrival) and take the opportunity to reconfigure the cart.
- The cart must be placed and wired near the center of the room, which subjects it to jostling, poses a tripping hazard, consumes floor space where the audience sits, and creates visual and audible distractions.
- With so much hardware involved, parts can go missing (and have done so). When this happens, or when someone has improperly modified the equipment, the latent problems may not become obvious until a future date … at which point the absence of a necessary device, or the expertise to work around a misconfiguration, could completely torpedo a planned event.
- As the location of the cart is fluid, and as the projector is available for patrons to fiddle with its settings, there is no way to ensure a consistent, high-quality projected image.
- There is no built-in sound recording, amplification, or projection system for voice, musical performances, or films. The audio setup is ad hoc and not of high quality. The speakers on the projector cart may be too loud for attendees sitting next to the cart, and too quiet for patrons in other areas of the room.
- The assistive listening equipment is limited, and should be expanded to support more users.
- We would like to be able to support A/V sessions in multiple meeting rooms at once, but the cart can only be in one location at a time. The Children's Craft Room is a prime target for the cart, however, there is no projection screen in that room.

The McAuliffe branch also needs a set of robust, battery-powered portable speakers suitable for on-location or outdoor events. The Main Library has such a set, but a second set is needed for the branch.

**Process**

The requirements for the proposed system were derived through discussions with McAuliffe staff, in consultation with HB Communications, and were informed by our extensive experience supporting A/V-based programs in the Community Room, as well as numerous events using the built-in A/V system in the Main Library's Costin Room.

**Proposed features**

To substantially mitigate the weaknesses enumerated above, we propose a professionally-installed A/V system with the following guiding principles:

- Staff should be able to use all equipment effectively, with modest training and minimal risk of loss or damage.
- One staff member should be able to set up and initiate a staff-sponsored event with minimal effort, and allow routine events to proceed with minimal or no further action.
- The public should to be able to use many of the room's capabilities without staff oversight or substantial risk of theft/damage. These capabilities include showing disc-based videos, displaying and using a computer whose image is projected on the screen, displaying the contents of mobile devices, playing audio, and using at least 2 wired microphones.

The proposed system, as supported by the analysis and associated quote from HB Communications, Inc., would incorporate the following key features:

- Ceiling-mounted projector
- Overhead "PA System" speakers and surround-sound system
- A publicly-accessible Blu-ray/DVD player
- Always-available, secure, built-in PC which is usable by the public via remote keyboard/mouse/USB
- Wall control panel for input selection, volume control, player controls
- Wall connections for various video and audio sources
- Improved microphone selection and audio mixing capabilities
- Expanded assistive listening options
- Improved security and protection for most equipment
- Better expandability

- Built-in projection screen in the Children's Craft Room
- Set of battery-powered, portable speakers sufficient for events elsewhere in the library, and at outdoor events

**Cost/Funding**

A detailed quote from HB Communications based on the OFF40 State Contract, dated November 8, 2017, is provided under separate cover. The cost for their proposed A/V installation that meets the requirements above is **$79,932**. This quote includes procurement, design, assembly, testing, most installation (see Other Notes below), shipping, staff training, and a 6-month warranty.

We are applying $9,000 from the Massachusetts Board of Library Commissioners State Aid toward this capital project.

**Other Notes**

The existing projector cart will continue to be used even after the implementation of the proposed Capital project. We expect it be used elsewhere in the building, such as the Children's Craft Room. And it will serve as a backup for the new built-in A/V system, when the latter is out of service.

Completing the installation may require physical changes to the McAuliffe Community Room, and are not included in the attached quotes, as some or all of this work may be performed by City personnel. Anticipated changes are:

1. 120V power runs to various locations for A/V equipment (e.g., projector, closet, wall panel(s)).
2. Construction of an enclosure within a wall for the publicly-accessible Blu-ray player.
3. Creating an opening in the wall between the interior of the two closets in the Community Room for cable pass-through.
4. One of the following, to permit A/V connector wiring to be installed in a location that works well with screen and lectern placement:
    a. Knee wall removal and reconstruction; or
    b. Installation of attractive wire molding.

# FY2019 Recommended: Bond $66,038

| | | | |
|---|---|---|---|
| **Project Number:** | Library/Library/2019/B | **Budget Year:** | 2019 |
| **Project Title:** | Main Library Circulation Desk | **Scenario:** | Main 2019 |
| **Asset Type:** | DESKS | **Budget Status:** | Department Request |
| **Department:** | C4-610 - Library | **Regions:** | Precinct 1, Precinct 2, Precinct 3, Precinct 4,... |
| **Project Type:** | Town Non-Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | Jul 2, 2018 | **Project Partner:** | |
| **Est. Completion Date:** | Sep 3, 2018 | | |

## Description:

In order to comply with current ADA standards, create compatibility with our new RFID technology, and streamline service, the Main Library seeks to replace the current main floor circulation desk. The current desk dates from 1979, before the Americans with Disabilities Act became law in 1990 and before computers were used to circulate library material. This desk has been used eight to twelve hours a day for the past forty years.

## Comments:

Replacing the 40 year old circulation desk is critical to meeting the current standards for library service, especially as it pertains to computer centered workstations and emerging technologies. Furthermore, a new desk will result in a reduction of service points, allowing staff to pursue other activities and duties necessary in operating the modern library. Also, and most critical, the new desk ensure we comply with the Americans with Disabilities Act and provide appropriate access to our patrons with disabilities.

The amount required for this project is $66,038.00, of which $7,000 will come from MBLC State Aid, and $59,038.00 would be sourced from the General Fund/borrowing.

## Justification:

Primary reasons for replacement are:
-Accessibility (currently non-compliant with ADA standards)
-Reduction of service points from 3 to 2 made possible because of new desk configuration
-New desk designed and built to accept RFID Technology
-New desk designed to improve patron and staff workflow with RFID security gates
-New desk designed to work in unison with Self-check stations
-Security enhancements will be possible with new desk design:
˜ *Camera access can embedded into new desk
˜ *Cash register can be made less visible and vulnerable
˜ *Lines of sight can be improved to both entrances
-New desk configuration allows for the installation of ergonomic features such as cushioned flooring for staff and appropriate counter heights
-New desk configuration with new book trucks will allow for more efficient workflow such as returns, sorting and re-shelving of library material
-Marketing: Our new desk will have an illuminated display case built into the front to securely market our Library of Things--Roku, Google Home, Amazon Echo, Wifi Hotspots, and portable battery pack chargers, etc.
-The existing desk has served Framingham well for over 40 years and has seen approximately 60 million transactions come across the surface of the desk. The desk is understandably worn (the original color of the laminate is unidentifiable in several places). This, coupled with the rationale above, including the imminent installation of RFID technology makes now the perfect time for replacement.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 66,038 | 0 | 66,038 |
| | **66,038** | **0** | **66,038** |

TUCKER
LIBRARY INTERIORS
L.L.C
55 SO. COMMERCIAL STREET
MANCHESTER, NH 03101
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# QUOTATION

11/6/2017

Mark Contois, Director
Framingham Public Library
746 Water Street
Framingham, MA 01701

Phone: 508-532-5570

Re: Main Branch Circulation Desk- Budget Estimate
Via MHEC Contract #MC11-C07
As per the attached drawings

| Item # | Model #/Description | List Ea. | Qty | Ext. List |
|---|---|---|---|---|
| Desk | Custom circulation desk 274" x 124" with dual height surfaces | 84,390.00 | 1 | $84,390.00 |

Consisting of multiple modules as per the drawings, to provide storage for book carts under the desk.
The desk front shall consist of red oak veneer panels fastened to both curved and flat portions by means of "Stand-Off" #SO-CAP9 buttons.
There shall be one pedestal consisting of 5 drawers, along with 2 modules of adjustable shelves. Also provided with lowered shelf for cash register.
The ADA/Info module shall have a surface at 32"H, and be a bow front design to permit patrons to move a wheelchair under the patron approach.
There shall be a glass front display case at one end 48"E x 24"D x 32"H.
This case will have an access door or doors on the staff side to permit the placement of items on an as needed basis by the staff.
Each module will be supplied with a "sub-top" to support a stone top.
Surface: **Stone top by others**.
Power supplied via Byrne "4-Trac" system: total of (8) duplexes.
This system will provide adequate power for the (3) planned computers.
***4-Trac requires 20 Amp circuit & outlet in floor box.**
*** We assume the Library will provide the proper circuit & outlet. There are (3) locations under the exiting desk where power comes through the floor. Any of the locations will work.**

| | |
|---|---|
| Total List: | $84,390.00 |
| Worden MHEC Contract #MC11-C07 discount: less 55%: | -$46,414.50 |
| MHEC Contract net product price: | $37,975.50 |
| Installation: | $1,575.00 |
| Desk Total **without top** as proposed: | $39,550.50 |

| Alternate: | Model #/Description | List Ea. | Qty | Ext. List |
|---|---|---|---|---|
| 1 | Custom "Alkemi" acrylic desk top for the Circulation Desk | 29,344.00 | 1 | $29,344.00 |

Fabricated at the Worden factory.

| | |
|---|---|
| Total List: | $29,344.00 |
| Worden MHEC Contract #MC11-C07 discount: less 55%: | -$16,139.20 |
| MHEC Contract net product price: | $13,204.80 |
| Installation: | $725.00 |
| Desk **acrylic top Alkemi "Aquarius" 730 carried for estimate**: | $13,929.80 |
| Desk Total **with acrylic top** as proposed: | $53,480.30 |

Framingham Public Library:

| Alternate: | Model #/Description | List Ea. | Qty | Ext. List |
|---|---|---|---|---|
| 2 | SXT-3015-R book trucks with rubber bumpers modified with steel tubes & strapping 36-1/2"H x 30-1/2"W x 14-1/2"D. | 1,699.00 | 16 | $27,184.00 |
| | | Total List: | | $27,184.00 |
| | Worden MHEC Contract #MC11-C07 discount: less 55%: | | | -$14,951.20 |
| | MHEC Contract net product price: | | | $12,232.80 |
| | Installation: | | | $325.00 |
| | Book truck total: | | | $12,557.80 |
| | **Project Total with Alternates 1 & 2 combined:** | | | $66,038.10 |

All prices are net, delivered, and installed during normal working hours by non-union installers.
Worden lead time is 16-20 weeks upon receipt of order and all approvals.
Shop drawings will be provided for your approval prior to fabrication.
*Alkemi "Aquarius" 730 is believed to be the surface of the circulation desk at the McAuliffe Branch.
Any significant design changes will require the desk to be re-quoted.
*This quote assumes that the Library will remove the existing desk prior to the delievery of the new desk.

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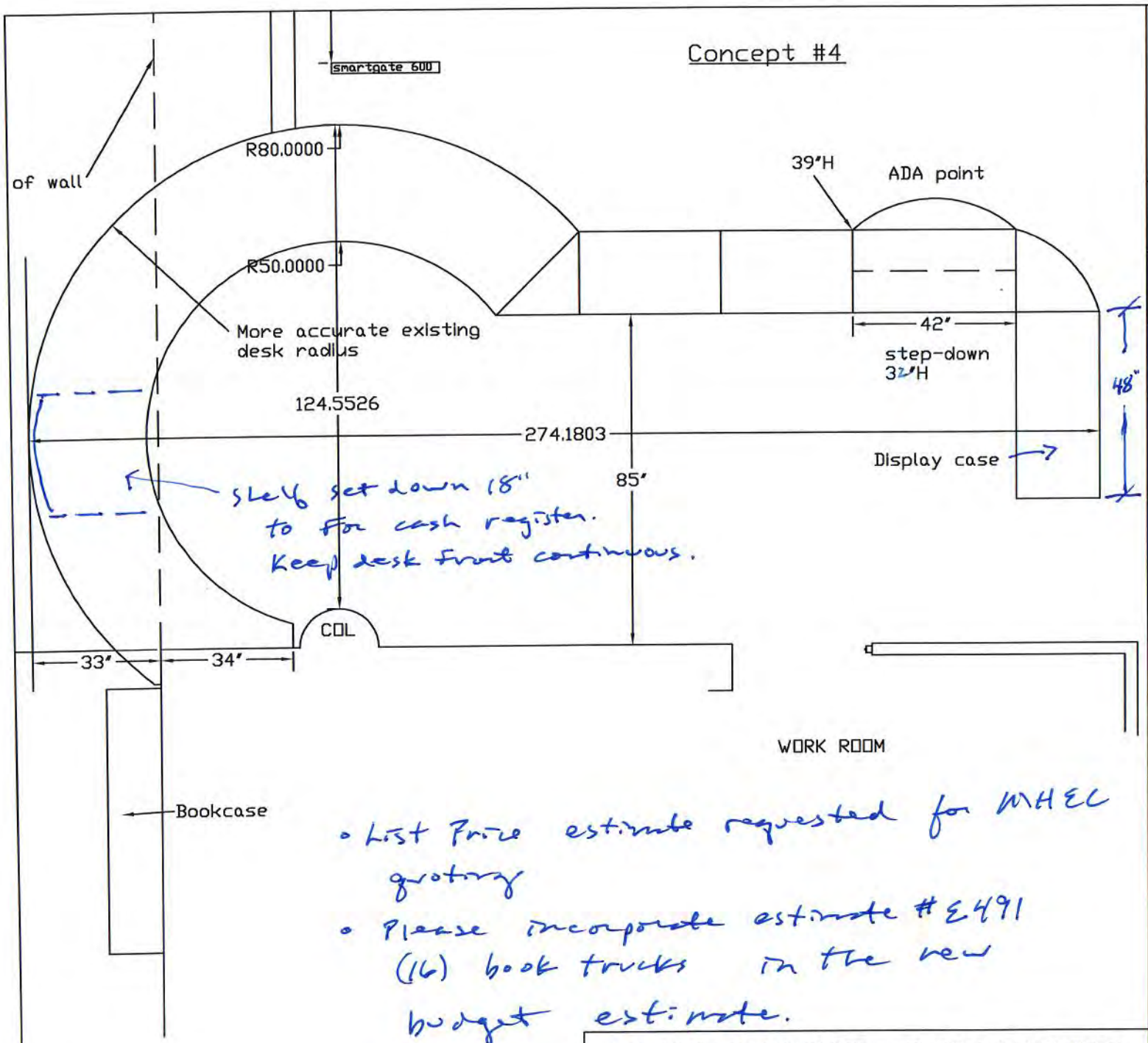
Prices are firm for acceptance for 30 days, subject to reconfirmation thereafter. PAYMENT TERMS: NET 15 DAYS. Deliveries are subject to delays from fire, strikes, or other causes beyond our control. Tucker Library Interiors, L.L.C. assumes no liability for delay due to causes beyond its control.

Accepted By:_____ By: Chip Hagy

Title:_____ Title: Sales Consultant




Framingham Public Library

Date: 11-1-17

Scale:

Revisions:

Notes:

Tucker Library Interiors, LLC

55 So Commercial St
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F: 603-666-7032

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Sheet 1

Framingham PL

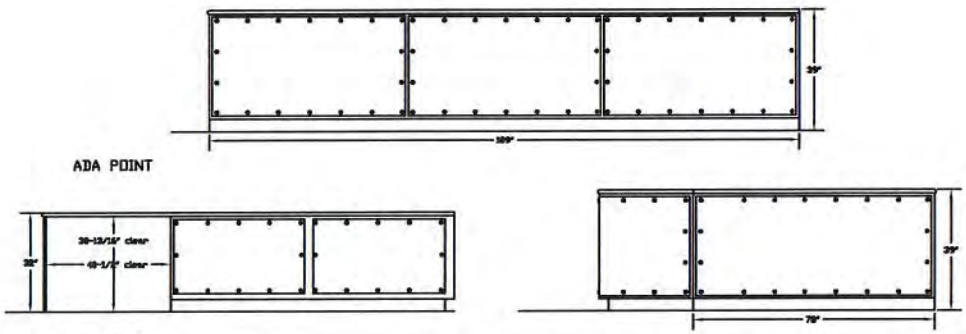
Date: 11-1-17

Scale:

Revisions:

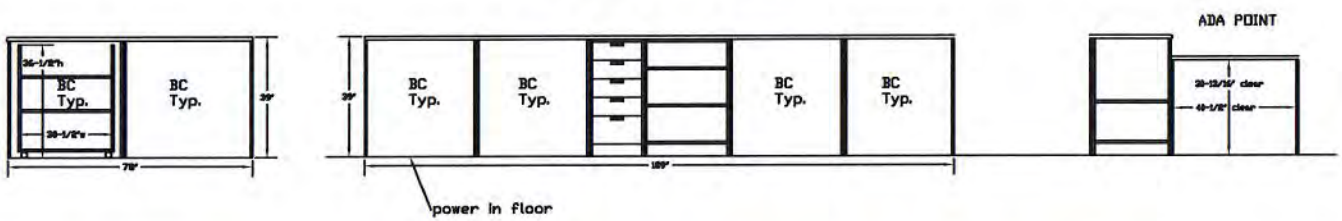
Notes:

Proposed Circulation Area
Patron Approach




Notes:
1. Desk front with red oak veneer panels ¼"T, fastened to chassis by means of 'Stand-Off' #SO-CAP9 1"dia x ⅜", on both curved & flat surfaces..
2. Open modules on staff elevations to accommdate existing book carts 30-½"W x 14"D x 36-½"H (denoted as 'BC TYP' in Staff Elevation.
3. One module with 5 drawers.
4. Two modules of adjustable shelving.
5. ADA Point with interior panel set back 18" from patron approach.
6. Provide '4-Trak' power distribution elements for (3) computers, with 20 AMP plug-in power feed, jumpers, and (8) duplex outlets.

Proposed Circulation Area
Staff Elevation




Option #1: chassis only: stone top by others

Add Alternate: chassis with acrylic top provided by Worden. Carry Alkemi types for budgeting. Can revise in the Future

⊕ carry cost to CNC 5 grommets – size TBD

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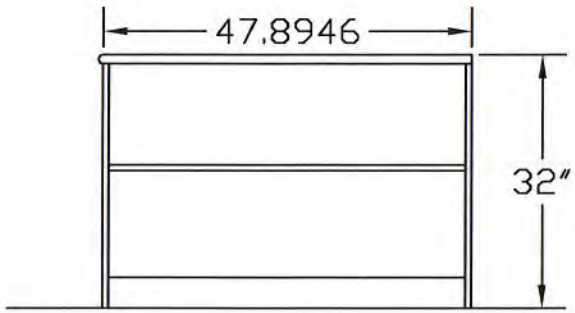
Sheet 2

# Display Case
## Patron Approach




Notes:

glass front display case with tempered glass. Access door(s) in back panel, to be accessed from staff side

Framingham PL

Date: 11-1-11

Scale:

Revisions:

Notes:

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Sheet 3

# FY2019 Recommended: Bond $395,055

| | | | |
|---|---|---|---|
| **Project Number:** | PARK/ParkRec/2019/E | **Budget Year:** | 2019 |
| **Project Title:** | Mary Dennison Park Improvements | **Scenario:** | Main 2019 |
| **Asset Type:** | PARKS | **Budget Status:** | Department Request |
| **Department:** | C4-650 - Parks & Recreation | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2014 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

95% Final Park Project Design and Environmental Testing/Remediation Design

## Comments:

## Justification:

The City of Framingham has been working in cooperation with the state environmental agency (Massachusetts Department of Environmental Protection, MassDEP) and former property owner, Avery Dennison Corporation of Pasadena, CA, formerly known as Dennison Manufacturing Company, to conduct required testing at the park and to create an appropriate remediation plan to address the environmental concerns at Mary Dennison Park. Parks & Recreation has been limited in moving forward on the new park redesign, since the re-design of the park must be developed in conjunction with an appropriate environmental remediation plan. We anticipate that the remediation plan could be developed during the next fiscal year, although an in-depth (100%) design will likely take longer. Also, some additional testing of the park's adjacent properties is required and is currently in process. Therefore, this appropriation request includes funding for both park re-design steps as well as further testing and environmental cleanup planning.

Prior Town Meeting appropriations have allowed us to complete the environmental testing of the park property itself and to perform short-term remediation, primarily of the eastern playground area; the rest of the park has remained open for its existing uses. This remediation allowed the Parks Department to temporarily re-open the eastern playground for public use until the long-term remediation plan is implemented.

Our Department has conducted public meetings to assist in defining and incorporating the neighborhood's vision for a re-designed park as well as regular project updates to the community. In this next phase, the preliminary design/design development plans for the park will be developed along with the environmental remediation design plans.

The FY 2019 Capital funding request for this project will enable the City to begin the 95% Final Project Park and Environmental Feasibility Study/Remediation Design. The identified funding request and projected timeline is a budget estimate based on current available information and is subject to change as additional information becomes available.

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 395,055 | 0 | 395,055 |
| | **395,055** | **0** | **395,055** |

****DRAFT Mary Dennison Park Preliminary Project Sequence/Cost Opinion DRAFT** Revised November 2017 (Original April 2015)**

| Project Phase | Activity | MCP Assess/Plan | Park Design | Stream/ Storm Design | Approx. Duration | Anticipated Timing |
|---|---|---|---|---|---|---|
| ~~Environmental Assessment Completion~~ | ~~Groundwater and Stream Sampling (3 events)~~ | | | | ~~4-8 months~~ | ~~April to November 2015~~ |
| | ~~Immediate Response Action (IRA) Excavations and Completion Reports~~ | | Completed | | | |
| | ~~Pre-Remedy/Post-IRA Human Health and Eco Risk Assessment~~ | | | | | |
| | ~~Phase II Comprehensive Site Assessment Report~~ | | | | | |
| Environmental Assessment | Off-property Site Assessment | $100,000 | | | 1-2 months | November to February 2018 |
| Data Gathering and Project Initiation | Wetland Delineation and Land Surveying | | $10,000 | $12,000 | 2-3 months | December 2017 to February 2018 |
| ***Regulatory Consultation*** | U.S. Army Corps of Engineers 404 | | | $3,000 | 1-2 months | December 2017 to May 2018 |
| | MassDEP Bureau of Waste Site Cleanup | | $3,000 | | | |
| | MassDEP Water Resources (Wetlands, NPDES, Water Quality Cert., Waterways Permit) | | | $3,000 | | |
| | Massachusetts Environmental Policy Act Office | | | $3,000 | | |
| | Town Conservation Commission | | $3,000 | | | |
| | Town Planning & Zoning | | | $3,000 | | |
| ~~Conceptual Project Design~~ | ~~Charrette – Public engagement and informational meeting~~ | | | | ~~2-4 months~~ | ~~September to December 2015~~ |
| | ~~Hydro, Hydraulic, and Stream Geomorphic Design Invest.~~ | | | | | |
| | ~~Conceptual Site and Stream Design~~ | | Completed | | | |
| | ~~Order of Magnitude Opinion of Construction Cost~~ | | | | | |
| | ~~Public Informational Meeting~~ | | | | | |
| 95% Final Project Design | Hydro, Hydraulic, and Stream Geomorphic Design | | | $10,000 | 2-4 months | January to December 2018 |
| | Stream Design | | | $25,000 | | |
| | 95% Site Park Design | | $250,000 | | | |
| | Prelim. Opinion of Construction Cost | $25,000 | $10,000 | | | |
| | Environmental Remediation Phase III Feasibility Study/Select remedy | $50,000 | | | | |
| | 95% Phase IV Remedy Implementation Plan | $120,000 | | | | |

****DRAFT Mary Dennison Park Preliminary Project Sequence/Cost Opinion DRAFT****
**Revised November 2017 (Original April 2015)**

| Project Phase | Activity | MCP Assess/Plan | Park Design | Stream/ Storm Design | Approx. Duration | Anticipated Timing |
|---|---|---|---|---|---|---|
| ***Project Permitting*** | U.S. Army Corps of Engineers | | | $15,000 | 6-8 months (2-3 months for permit preparation; anticipated 4-5 months for regulator review and comment-response) | January to July 2018 |
| | MassDEP Water Resources (Wetlands, NPDES, Water Quality Cert., Waterways Permit) | | | $40,000 | | |
| | Town Conservation Commission | | $10,000 | | | |
| | Town Planning & Zoning | | $5,000 | | | |
| 100% Final Project Design | Final Site and Stream Design | To be determined | | | 3-5 months | January to May 2018 |
| | Final Opinion of Construction of Cost | | | | | |
| | Final Park Design | | | | | |
| ***Bidding and Procurement*** | Bid Documents, Specifications, Project Manual | To be determined | | | 1-3 months | June to July 2018 |
| | Advertisement and Request for Proposals | | | | | |
| | Bid Review and Award | | | | | |
| Construction | Earthwork and Cap Construction | To be determined | | | 8-10 months | Fall 2018 to 2020 |
| | Stream and Park Construction | | | | | |
| | Landscape Architecture and Landscaping | | | | | |
| Project Completion | Permit Closure Documentation | To be determined | | | 1-3 months | 2020 |
| | As-Built Survey | | | | | |
| | Post-Remedy Human Health and Eco Risk Assessment | | | | | |
| | Permanent Solution Report | | | | | |
| | Activity and Use Limitation/Soil Management Plan | | | | | |
| | Stream Restoration Evaluation and Report | | | | | |
| Estimated Total | | $295,000 | $311,000 | $114,000 | | $720,000 |
| Add 15% Contingency | | | | | | $108,000 |
| **Estimated Total - 95% Final Project Park and Environmental Remediation Design** | | | | | | **$828,000** |

| | |
|---|---|
| FY 2016 Appropriation Balance Available | $432,945 |
| Less Estimated Total - 95% Final Design | $828,000 |
| **FY 2019 Capital Request - 95% Final Project Park and Environmental Remediation Design** | **($395,055)** |

**Assumptions:**

All costs in 2017 dollars

95% Park design includes one additional community meeting/charrette

One round of comments and two meetings with each reg. agency included (Subject to variation depending upon permitting agencies).

No bond or off-site remediation costs included

No litigation support or expert testimony included

Winter conditions assumed to be appropriate for outdoor tasks

Does not account for potential project delays or cost sharing associated with involvement of outside Potentially Responsible Party.

# FY2019 Recommended: Bond $41,340

| | | | |
|---|---|---|---|
| **Project Number:** | PARK/ParkRec/2019/F | **Budget Year:** | 2019 |
| **Project Title:** | Butterworth Park Phase VI - Basketball Court Relocation | **Scenario:** | Main 2019 |
| **Asset Type:** | | **Budget Status:** | Department Request |
| **Department:** | C4-650 - Parks & Recreation | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This project is a continuation of a multi-phase improvement plan for Butterworth Park. Completion of this project will continue to accomplish important identified improvements to this valued neighborhood Park.

## Comments:

## Justification:

The present phase of the Butterworth Park improvement plan consists of relocation of the current full basketball court to a more appropriate location within the facility. In a prior improvement phase, the Parks Department received funding for the removal of a failing concrete bleacher structure that provided spectator seating along the baseball diamond. Once this structure was removed the basketball court was exposed to a potential foul ball hazard. To mitigate this concern, the Parks Department is proposing relocation of the full sized court and returning the current location back to green space.

The new court will be relocated parallel to Grant Street in the current location of the aging half-court basketball court. This will require grinding and removal of the current full sized basketball court. This area will then be returned to green space, further beautifying the park and adding an additional location for families to recreate. The half-court will then be removed and a new full sized court will be constructed in its place. Finally, an accessible pathway will be built leading to the new court from the existing interior park pathway.

This improvement project is Phase VI in the Butterworth Park improvement plan. Prior Park Improvement Phases include:

• Phase I – Construction of a new internal parking lot and formalization of perimeter parking along Arthur Street.
• Phase II – Installation of lighting at tennis courts.
• Phase III – Removal of old concrete bleacher structure and installation of new ADA seating at baseball diamond.
• Phase IV – Installation of accessible interior park pathway and reconfiguration of Grant Street entrance to park.
• Phase V – Installation of shade shelter at playground (ongoing)

The Parks Department's mission statement it "to create recreation opportunities, preserve open space, manage public athletic fields and parks, and administer recreation programs and facilities for the varied population of Framingham." Neighborhood parks are essential in providing safe space for the community to gather. These proposed improvements to Butterworth Park continue our effort to further our mission statement as well as to provide a neighborhood park that residents can be proud of.

In an effort to continue in our mission to provide a safe and well maintained park that the Butterworth neighborhood can feel proud of, the Division of Parks, Recreation & Cultural Affairs respectfully requests funding for this Phase VI park improvement request.

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 41,340 | 0 | 41,340 |
| | **41,340** | **0** | **41,340** |

| Priority 6 - Butterworth Phase VI Improvements | | | | |
|---|---|---|---|---|
| Basketball Court Removal and Relocation | | $ 22,750.00 | | |
| Reclaim existing court | | | | |
| Strip and stack loam | | | | |
| Install reclaim base for new court | | | | |
| Fine grade and compaction | | | | |
| Pave with 1.5" of asphalt binder course | | | | |
| Pave with 1.5" of asphalt top course | | | | |
| Loam and seed distrubed areas | | | | |
| Removal and re-installation of Basketball Standards | | $ 2,000.00 | | |
| Paving of Pathway Connection | | $ 5,000.00 | | |
| Sealcoating of new Basketball Court (4,700 sq. ft.) | $1/Sq. Ft. | $ 4,700.00 | | |
| **Construction Sub Total** | | **$ 34,450.00** | | |
| 10% Design &Engineering Contingency | *$3,445.00* | | | |
| 10% Construction Contingency | *$3,445.00* | | | |
| **Estimated General Fund Project Total** | | **$ 41,340.00** | | |

Removal and installation quote provided by Newport Construction, 11-7-2017
Sealcoating quote provided by East Coast Sealcoating, 11-7-2017
Removal and re-installation of Basektball Standards provided by McKeown Masonry, 11-9-2017

Received 11-7-2017

NEWPORT

**Proposal for Basketball court at Butterworth Park (approx. 110' x 55'):**

- **Reclaim existing court and save material to use as base for new court.**
- **Strip and Stack Loam for new court location.**
- **Install reclaim base from old court on new area. Fine Grade and Compact**
- **Pave with 1.5" of asphalt binder course**
- **Pave with 1.5" of asphalt top course**
- **Spread loam in area of old court and around areas effected by excavation and Hydroseed.**

**Lump Sum Total: $22,750.00**

Estimated by: Anthony J Barrile

| EAST COAST SEALCOATING QUOTE | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Sealcoating | | | | Crack Repair | | | | Total Cost for Both |
| Location | Square Feet | Cost per square foot | Cost | | Linear Feet | Cost per Linear foot | Cost | Comments | |
| New Court at Butterworth | 4,750 | 1.00 | $4,750 | | | | $0 | | $4,750 |
| | | | | | | | $0 | | $0 |
| | | | | | | | $0 | | $0 |
| | | | | | | | | | $0 |
| | | | | | | | | | |
| Totals | **4,750** | | **$4,750** | | **0** | | **$0** | | **$4,750** |
| | | | | | | | | | |
| Provided by East Coast Sealcoating on November 8, 2017 | | | | | | | | | |

McKEOWN MASONRY INC.
47 Pinewood Drive
Framingham, Massachusetts 01701
(978) 568-0255
FAX (978) 568-0266

| | | |
|---|---|---|
| FROM: | Mark McKeown | Cell (774) 244-0495 |
| TO: | Attn Chris McGinty<br>Framingham Parks and Recreation | Tel 508 294-1419<br>Fax 508 872-2591 |
| RE: | Butterworth Park | |
| DATE: | November 9, 2017 | |

McKeown Masonry Inc. proposes to furnish all stock, labor, scaffolding and equipment for the following:

- Install two basketball standards in concrete footings.

Note: standards to be provided by City of Framingham.

Contract Price $2,000.00

# District 7 - Butterworth Park Phase VI Improvements
# Basketball Court Relocation

# Recent Improvements

- Tennis Court Lighting Installation and Accessible Playground Installation;
- Removal of Concrete Bleacher Structure and installation of new seating at Baseball Field;
- Installation of Accessible Interior Pathway and reconfiguration of Grant Street Entrance;
- Shade Shelter Installation at Playground (ongoing);

# Current Conditions

Proximity to Park Pathway Creating Potential Safety Concern to Pedestrian Traffic

Within Foul Ball Line of Baseball Diamond Creating Potential Safety Concern

# Proposed Project

Removal of Current Court, Returning Area Back To Green Space

Removal of Current Half Court, Installation of New, Full Basketball Court

# FY2019 Recommended: Bond $49,140

| | | | |
|---|---|---|---|
| **Project Number:** | PARK/ParkRec/2019/A | **Budget Year:** | 2019 |
| **Project Title:** | F350 4x4 Crew Cab Pickup 10,000 GVW | **Scenario:** | Main 2019 |
| **Asset Type:** | PICK UP TRUCKS | **Budget Status:** | Department Request |
| **Department:** | C7-650 - Parks & Recreation | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2009 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

These funds will be used to purchase a F350 4x4 Crew Cab Pickup Truck to replace a 2001 Ford F350 4x4 Regular Cab Pickup Truck with 79,723 miles, equating to 119,585 engine miles.

## Comments:

## Justification:

The Parks Maintenance Department has a limited amount of vehicles within its fleet to support the operational demands. This vehicle, listed within our fleet as Truck 3, is a F350 4x4 Crew Cab Pickup truck used to transport staff on a limited basis. Due to its current condition, this vehicle is no longer used to transport equipment and has greatly decreased its capabilities to serve within the fleet.

In the past calendar year, this vehicle has undergone numerous repairs in order to pass State Inspection. These repairs have included the replacement of ball joints, and replacement of the shifter cable. Over the past year, Truck 3 has sustained additional rust damage that has required minor body work repairs in an effort to stabilize the vehicle for usage. These repairs have included work to the bed mounts, wheel wells, and front bumper. Due to the age and continued (while limited), usage of Truck 3, we anticipate this vehicle will continue to deteriorate, further limiting its usefulness. In addition, the current condition and continued deterioration of Truck 3 prevent the vehicle from passing State vehicle inspection next year. Those repairs include, but are not limited to:

• Replacement of both sets of rear springs;
• Replacement of rusted, leaking oil pan and rear main engine seal that requires removal of the engine and transmission;
• Replacement of shocks;
• Replacement of rotted break lines;

After 17 years of operational service, the overall physical and mechanical condition of the vehicle is significantly degraded, requiring replacement.

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 49,140 | 0 | 49,140 |
| | **49,140** | **0** | **49,140** |

| 2018 F350 CREW CAB PICKUP TRUCK | |
|---|---|
| Estimate from MHQ, October, 2017 | $44,673.00 |
| **Sub Total** | |
| 10% Estimated Cost Escalation for FY18 Contract | $4,467.30 |
| | |
| **Total** | **$49,140.30** |

Price per quote from Greg Keith, MHQ
* Price Escalation due to anticipated 2018 contract

# Framingham
# Parks and Recreation Department

**475 Union Avenue · 508 532 5960**

## Memorandum

**From the desk of Donald Capen**

November 4, 2017

**RE: Capital Budget Vehicle Replacement – 2001 Ford F350 4x4 Regular Cab Pickup**

Chris,

As requested, the following is a description of the current issues with the 2001 Ford F350 4x4 Regular Cab Pickup. Currently, this vehicle has 79,723 miles on the odometer.

Due to its current condition, this vehicle is no longer used to transport equipment and has greatly decreased its capabilities to serve within the fleet. Current issues requiring attention, labor and expense are:

- Replacement of both sets of rear springs;
- Replacement of rusted, leaking oil pan and rear main engine seal that requires removal of the engine and transmission;
- Replacement of shocks;
- Replacement of rotted break lines;

In the past calendar year, this vehicle has undergone numerous repairs in order to pass State Inspection. These repairs have included the replacement of ball joints, and replacement of the shifter cable. Over the past year, Truck 3 has sustained additional rust damage that has required minor body work repairs in an effort to stabilize the vehicle for usage.

After 17 years of operational service, the overall physical and mechanical condition of the vehicle is significantly degraded. Based on an overall assessment of the vehicle, I believe it has reached its useful life expectancy and would recommend replacement.

Regards,

Donald Capen
Mechanic

PARKS
TOWN OF FRAMINGHAM, MA
& RECREATION

MHQ
VEHICLES ■ EQUIPMENT ■ GEAR

# QUOTE

## CUSTOMER

| | | | |
|---|---|---|---|
| Contact Name: | Town of Framingham | Date: | 10/31/2017 |
| Company/Dept: | Parks Department | Valid for: | 60 Days* |
| Street Address: | 475 Union Ave | Customer #: | 10142 |
| City, State, Zip: | Framingham, MA 01702 | Contract: | GBPC/Bapern 2015 |
| Phone: | 508-532-5960 | Sales Rep: | GAK |
| E-Mail: | cam@framinghamma.gov | | |

| CONTRACT LINE REFERENCE | LINE DESCRIPTION | UNIT PRICE | QTY. | EXTENDED PRICE |
|---|---|---|---|---|
| | | | | $0.00 |
| W3B | 2018 F350 4X4 Crew Cab Pickup 11,200 GVWR | $31,790.00 | 1 | $31,790.00 |
| | 8' Pickup bed for Crew Cab | $189.00 | 1 | $189.00 |
| 99T | 6.7 LITER POWER STROKE DIESEL ENGINE | $8,725.00 | 1 | $8,725.00 |
| SP101 | SVO Paint: Green Gem | $601.00 | 1 | $601.00 |
| | Trailer tow package | included | | |
| | Automatic Transmission | included | | |
| | HD vinyl bench seat, HD vinyl flooring, Air conditioning and spare tir | included | | |
| | AM/FM radio with digital clock & four upfitter switches | included | | |
| 66S | (6) Upfitter switches | $160.00 | 1 | $160.00 |
| 52B | Electronic trailer brake controller | $261.00 | 1 | $261.00 |
| 473 | Snow plow prep package | $79.00 | 1 | $79.00 |
| 41H | Engine block heater | $87.00 | 1 | $87.00 |
| 213 | Electronic shift on the fly four wheel drive | included | | |
| 18B | Black Molded Running Boards, Crew Cab | $431.00 | 1 | $431.00 |
| 3.10 | Whelen (4) LED Vertex hideaway system | $455.00 | 1 | $455.00 |
| 1.08 | Whelen L31HAF Super LED beacon | $420.00 | 1 | $420.00 |
| 22.16 | Slide in pintle/ball combination hitch for receiver | $135.00 | 1 | $135.00 |
| 22.10 | Diamond Plate Aluminum crossbody tool box | $795.00 | 1 | $795.00 |
| 22.02 | Rhino Coat bedliner, spray on (pickup bed) | $545.00 | 1 | $545.00 |
| 8.08 | Motorola CDM1250, 64 channel, Alpha display, 45 Watt, VHF High Band front mount radio frequency range136-174 MHz model # AAM25KKD9AA2 | | 1 | |
| | | | | $0.00 |
| | | | TAX: | |
| | | | TOTAL: | **$44,673.00** |

## TERMS AND CONDITIONS

*This quote is valid for 60 days from the date of quote. Any purchase orders or approved quotes received outside of the 60 day quote period will be subject to price adjustments. By signing this quote, the customer is agreeing to pay, in full, for all items listed above. Any requests for changes, modifications, replacements, removals or additional items may be subject to additional fees and/or adjusted delivery dates.

M.G.L c. 30B applies to the procurement of all commodities quoted. Contract items have been collectively purchased pursuant to M.G.L c 30B sec 1c and M.G.L c.7 sec 22B. The government body is responsible to determine the applicibility of M.G.L. c30B to off contract items, but not limited to, off contract items that have already been properly procured under M.G.L. c30B sec 1c and M.G.L. c7 sec 22A (purchases from a vendor on contract with the Commonwealth), other contracts procured under M.G.L. c30B sec 1c and M.G.L. c. 30B contract between the vendor and the jurisdiction. All off contract items must be proccured under M.G.L. c. 30B.

The terms and conditions stated herein and the provisions of any agreement between MHQ and Buyer, if applicable, shall constitute the complete and only terms and conditions applicable to any and all purchases by Buyer from MHQ. Any additional and/or different terms and/or conditions printed anywhere including on, or with, Buyer's order shall be inapplicable in regard to any purchase by Buyer from MHQ.

## ORDER ACKNOWLEDGEMENT

By signing this document you are agreeing to the above terms and conditions of this order from MHQ, Inc.

x

PRINT NAME

x

TITLE

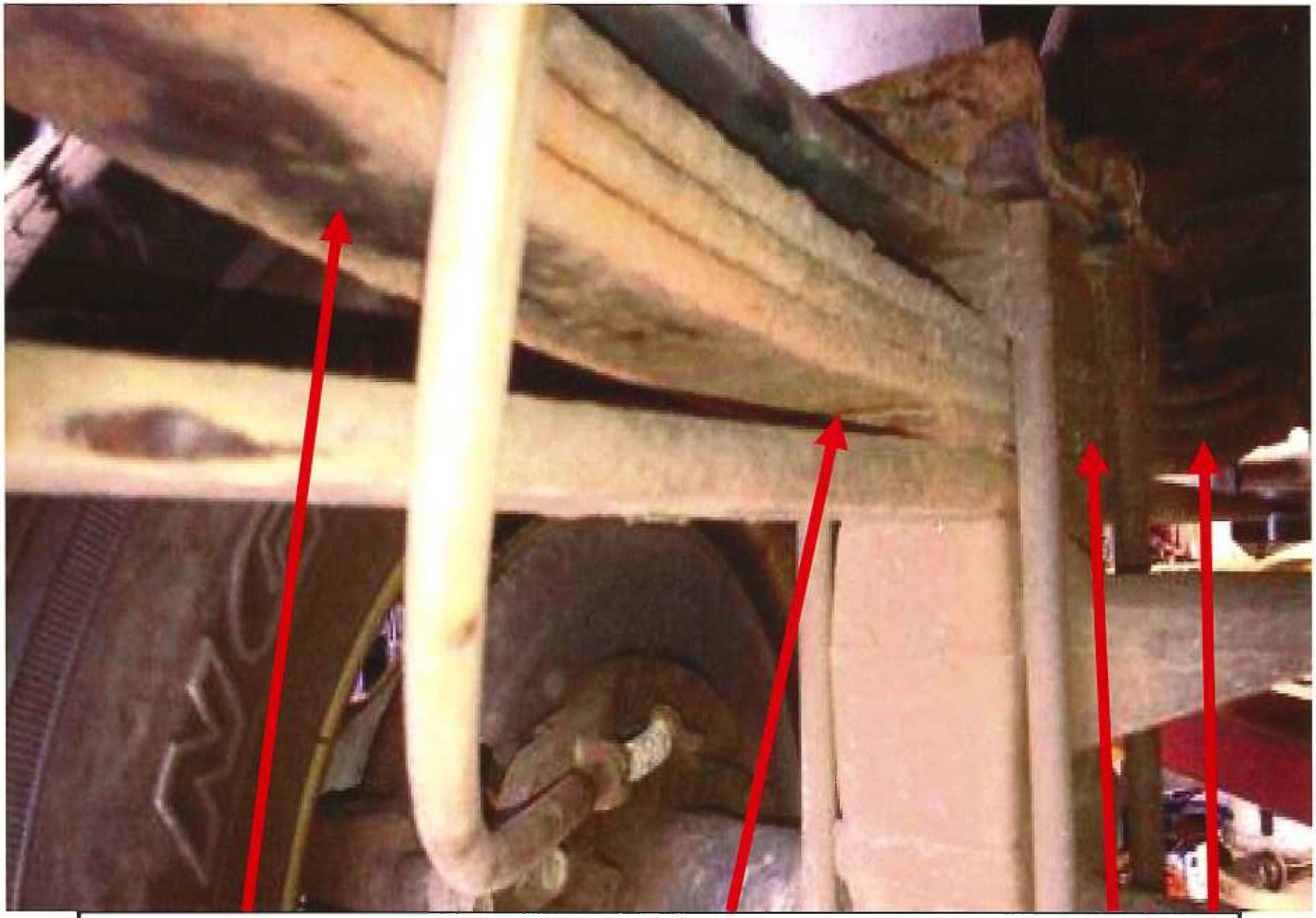
x

SIGNATURE

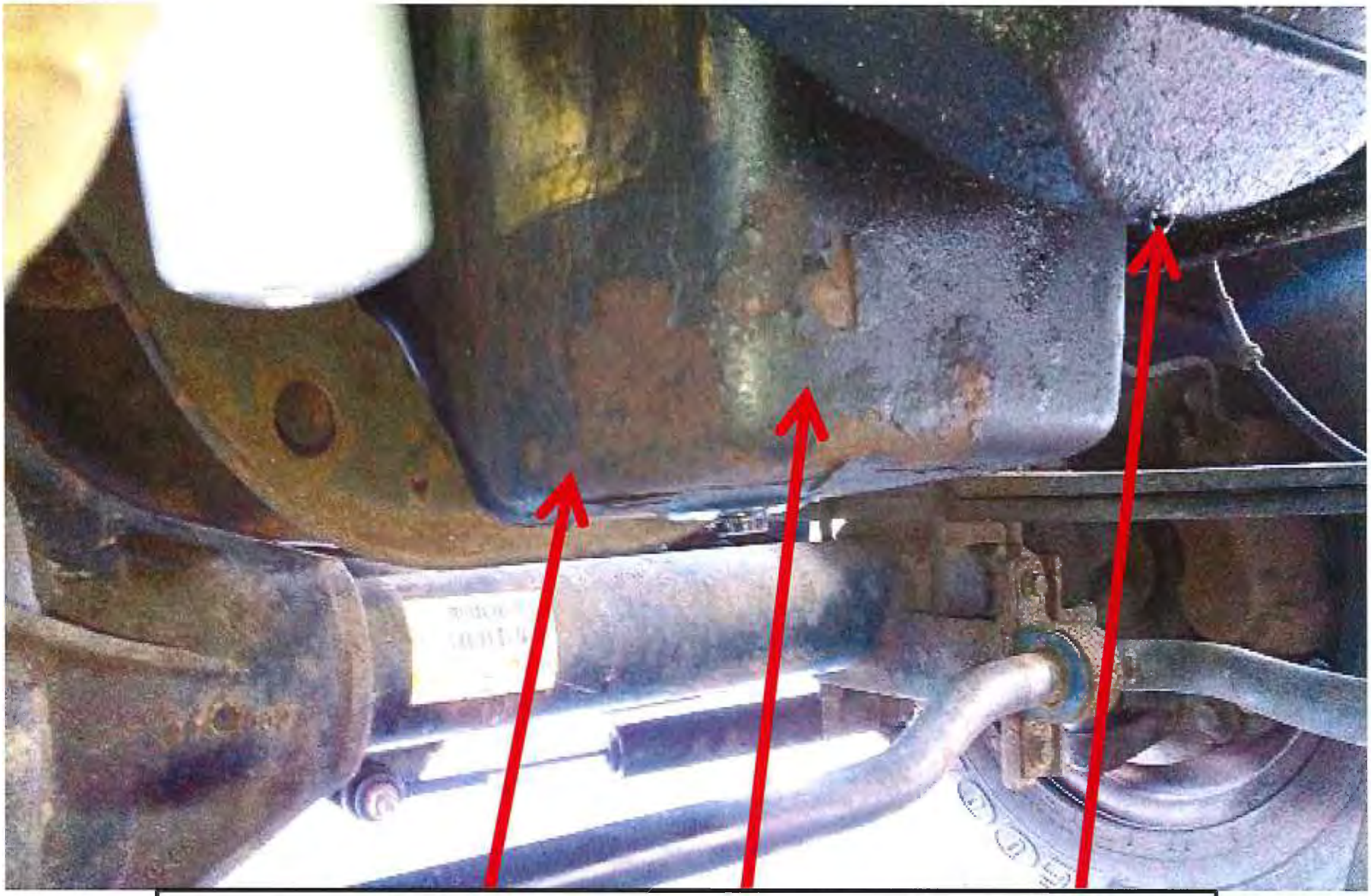
Quote provided by Greg Keith, Key Accounts Manager at MHQ
(508) 954-2225 or gkeith@mhq.com

# 2001 F350 Regular Cab Pickup

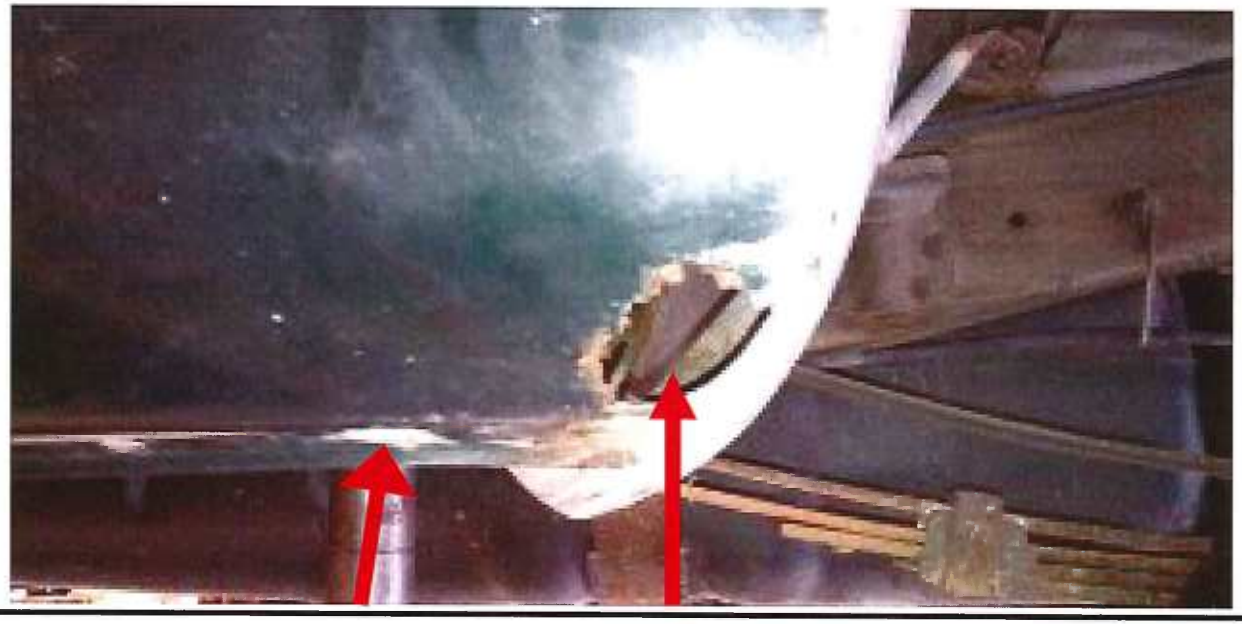
Choose FRAMINGHAM



Damaged rear springs that require full replacement



Rust damage and leakage to oil tank and rear main seal, requiring removal of engine and transmission to repair



Rust damage and perforation to truck bed and front bumper, requiring replacement

Rust damage and perforation to truck bed mount,
creating load instability

# FY2019 Recommended: Free Cash $250,000

| | | | |
|---|---|---|---|
| **Project Number:** | FPS/B&G/2019/A/Request | **Budget Year:** | 2019 |
| **Project Title:** | Technology Upgrades Throughout the District FY19 | **Scenario:** | Main 2019 |
| **Asset Type:** | SCHOOL BUILDINGS | **Budget Status:** | Department Request |
| **Department:** | C3-971 - Building & Grounds Department | **Regions:** | |
| **Project Type:** | School Technology Software | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | July 1, 2018 | **Project Partner:** | |
| **Est. Completion Date:** | June 30, 2019 | | |

## Description:

Technology Upgrades Throughout the District Tech

## Comments:

The Office of Technology is requesting funds to continue to move forward with the District Technology Plan. The goal of the plan is to provide a strong and dependable infrastructure as well as appropriate devices to support an advanced learning environment for the 21st century student and educator. The Office's intent is to lead and collaborate with students, staff and district administration to meet both instructional and administrative goals of teaching and learning district-wide. These funds are also being requested to refresh aged staff laptops over 4 years old, and upgrade to a high-performance network using current technology.

## Justification:

Capital Technology - Justification

The Office of Technology is responsible for providing a technical foundation and vision to support the advance learning environment of the 21st century student and educator. The intent is to lead and collaborate across the spectrum of students, staff and district administration to meet both instructional and administrative goals of teaching and learning district-wide. Framingham Public Schools will continue to invest in technology throughout the district with a focus on student and staff needs.

Chromebooks
The Framingham Public School district has made an initial investment in the use of Google based Chromebook in the classroom. Chromebooks are low cost keyboard based solution for putting technology into the student's hands and integrates directly with the district's investment in Google Apps for Education. The Google WebApp store offers a wide selection of free and paid-for apps spanning educational and business categories. The district's goal is to ensure that every student has access to technology and online resources. This request is to support the continued deployment and refresh of devices in the classroom in an equitable manner. Devices will be distributed based on a student ratio and the school's commitment to enhancing their digital curriculum.

Staff Laptops
The Framingham Public School District must continue to invest in tools to assist staff within the classroom and learning environment. The average lifespan of these devices, stated by the vendor is 5 years. The district has distributed devices starting in 2010 but has not established a replenishment process to replace the depreciated devices. The Office of Technology has developed a schedule to replace 25% of the staff laptops each year over the next 4 years. The investment to staff devices should be viewed as a re-occurring cost.

Classroom Projectors
Each classroom the district has been equipped over the years with technology to support the learning environment. LCD projectors are useful in presenting and sharing in a group environment. Current LCD projectors are aging and many within the district are reaching 10 years. This investment is intended to replenish 15% of the aged staff/classroom tools.

School Library Technology Upgrades
The Framingham Public School District continues to develop and support the Framingham Public Schools Library program. The impact an effective 21st century library can have on students, teachers, and administrators is unquestionable. A well-functioning library is the nexus of the school, supporting teachers and positively impacting student learning, information literacy, and achievement; and helps promote positive digital citizenship. Each School Library has requested upgrades in the technology needed to create and operate an environment focused on research. This investment will continue to provide seamless access to digital resources, integrate technology into the curriculum of the Framingham Public School district, and to assist the learning community through efficient processes and training.

# FY2019 Recommended: Free Cash $250,000

**Project Forecast**

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 250,000 | 0 | 250,000 |
| | **250,000** | **0** | **250,000** |

## 1. Technology Upgrades District-Wide

**FY19:**

The Office of Technology is requesting funds to continue to move forward with the District Technology Plan. The goal of the plan is to provide a strong and dependable infrastructure as well as appropriate devices to support an advanced learning environment for the 21st century student and educator. The Office's intent is to lead and collaborate with students, staff and district administration to meet both instructional and administrative goals of teaching and learning district-wide. These funds are also being requested to refresh aged staff laptops over 4 years old, and upgrade to a high-performance network using current technology.

**$ 350,000**

**The office of Technology will be providing detailed back up information for this request prior to submission to the CFO.**

# Framingham Public Schools

**Robert A. Tremblay, Ed.D., Superintendent of Schools**

**OFFICE OF TECHNOLOGY**
**Mr. George Carpenter, Director**
**Mr. David Heistand, Assistant Director**
115 A Street, Framingham, MA. 01701
Telephone: 508-424-3413, Option #2


**RE: Technology Capital Request FY 2019**

## Capital Technology - Justification

The Office of Technology is responsible for providing a technical foundation and vision to support the advance learning environment of the 21st century student and educator. The intent is to lead and collaborate across the spectrum of students, staff and district administration to meet both instructional and administrative goals of teaching and learning district-wide.

Framingham Public Schools will continue to invest in technology throughout the district with a focus on student and staff needs.

## Chromebooks

The Framingham Public School district has made an initial investment in the use of Google based Chromebook in the classroom. Chromebooks are low cost keyboard based solution for putting technology into the student's hands and integrates directly with the district's investment in Google Apps for Education. The Google WebApp store offers a wide selection of free and paid-for apps spanning educational and business categories. The district's goal is to ensure that every student has access to technology and online resources. This request is to support the continued deployment and refresh of devices in the classroom in an equitable manner. Google has stated that the useful lifecycle of a Chromebook is 5 years.

Devices purchased will be replace damaged and retired equipment

## Staff Laptops

The Framingham Public School District must continue to invest in tools to assist staff within the classroom and learning environment. The average lifespan of these devices, stated by the vendor is 5 years. The district has distributed devices starting in 2010 but has not established a replenishment process to replace the depreciated devices. The Office of Technology has developed a schedule to replace 20% of the staff laptops each year over the next 5 years. The investment to staff devices should be viewed as a re-occurring cost as the average lifespan of a laptop is 5 years.

## Classroom Projectors

Each classroom the district has been equipped over the years with technology to support the learning environment. LCD projectors are useful in presenting and sharing in a group environment. Current LCD projectors are aging and many within the district are reaching 10 years. This investment is intended to replenish 15% of the aged staff/classroom tools

## School Library Technology Upgrades

The Framingham Public School District continues to develop and support the Framingham Public Schools Library program. The impact an effective 21st century library can have on students, teachers, and administrators is unquestionable. A well-functioning library is the nexus of the school, supporting teachers and positively impacting student learning, information literacy, and achievement; and helps promote positive digital citizenship. Each School Library has requested upgrades in the technology needed to create and operate an environment focused on research. This investment will continue to provide seamless access to digital resources, integrate technology into the curriculum of the Framingham Public School district, and to assist the learning community through efficient processes and training

| 2019 Capital Funding Request | | | | | |
|---|---|---|---|---|---|
| | Project | Category | Qty | Unit Cost | Total |
| 1 | School Library Technology Upgrades | Learning Space | 1 | $20,000.00 | 20,000.00 |
| 2 | Classroom Projectors | Teacher Classroom Tools | 70 | 509 | 35,630.00 |
| 3 | Staff Laptops | Teacher Classroom Tools | 220 | 815 | 179,300.00 |
| 4 | Student Chromebooks | Student Learning Devices | 500 | 229.5 | 114,750.00 |
| | | | | Total | **$349,680.00** |

## FY20-FY26

$500,000 every year to refresh, replace and update infrastructure and expand technology educational tools.

# A quote for your consideration!

Based on your business needs, we put the following quote together to help with your purchase decision. Please review your quote details below, then contact your sales rep when you're ready to place your order.

**Total: $16,645.00**

**Quote number:**
3000019259051.1

**Quote date:**
Nov. 6, 2017

**Quote expiration:**
Dec. 6, 2017

**Company name:**
FRAMINGHAM PUBLIC SCHOOLS

**Customer number:**
125651752

**Phone:**
(508) 626-9100

**Sales rep information:**

Russell Suits
Russell_Suits@Dell.com
(800) 456-3355
Ext: 5138586

**Billing Information:**

FRAMINGHAM PUBLIC SCHOOLS
73 MOUNT WAYTE AVE
STE 5
SJM
FRAMINGHAM
MA 01702-5803
US
(508) 626-9100

## Pricing Summary

| Item | Qty | Unit Price | Subtotal |
|---|---|---|---|
| Dell Interactive Conference Room 70 Monitor - C7017T | 5 | $3,329.00 | $16,645.00 |
| | | **Subtotal:** | $16,645.00 |
| | | **Shipping:** | $0.00 |
| | | **Environmental Fees:** | $0.00 |
| | | **Non-Taxable Amount:** | $16,645.00 |
| | | **Taxable Amount:** | $0.00 |
| | | **Estimated Tax:** | $0.00 |
| | | **Total:** | **$16,645.00** |

Special lease pricing may be available for qualified customers. Please contact your DFS Sales Representative for details.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## Dear Customer,

Your Quote is detailed below; please review the quote for product and information accuracy. If you find errors or desire certain changes please contact me as soon as possible.

Regards,

Russell Suits

Order this quote easily online through your Premier page, or if you do not have Premier, using Quote to Order

## Shipping Group 1

| Shipping Contact: | Shipping phone: | Shipping via: | Shipping Address: |
|---|---|---|---|
| DANIELLE GLIMCHER | (508) 626-9100 | Standard Ground | OFFICE OF TECHNOLOGY<br>115 A ST RM K006<br>FRAMINGHAM<br>MA 01701-4175<br>US |

| SKU | Description | Qty | Unit Price | Subtotal |
|---|---|---|---|---|
| | Dell Interactive Conference Room 70 Monitor - C7017T | 5 | $3,329.00 | $16,645.00 |
| | **Estimated delivery date:** Nov. 10, 2017<br>**Contract No:** 78AFH<br>**Customer Agreement No:** ITC47 | | | |
| 210-AJJI | Dell Interactive Conference Room 70 Monitor - C7017T | 5 | - | - |
| 810-7363 | Dell Limited Hardware Warranty | 5 | - | - |
| 810-7371 | Advanced Exchange, 3 Years | 5 | - | - |

| | |
|---|---|
| **Subtotal:** | $16,645.00 |
| **Shipping:** | $0.00 |
| **Environmental Fees:** | $0.00 |
| **Estimated Tax:** | $0.00 |
| **Total:** | **$16,645.00** |


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# Important Notes

## Terms of Sale

Unless you have a separate written agreement that specifically applies to this order, your order will be subject to and governed by the following agreements, each of which are incorporated herein by reference and available in hardcopy from Dell at your request: Dell's Terms of Sale (www.dell.com/learn/us/en/uscorp1/terms-of-sale), which include a binding consumer arbitration provision and incorporate Dell's U.S. Return Policy (www.dell.com/returnpolicy) and Warranty (for Consumer warranties ; for Commercial warranties).

If this purchase includes services: in addition to the foregoing applicable terms, the terms of your service contract will apply (Consumer;Commercial). If this purchase includes software: in addition to the foregoing applicable terms, your use of the software is subject to the license terms accompanying the software, and in the absence of such terms, then use of the Dell-branded application software is subject to the Dell End User License Agreement - Type A (www.dell.com/AEULA) and use of the Dell-branded system software is subject to the Dell End User License Agreement - Type S ( www.dell.com/SEULA).

If your purchase is for Mozy, in addition to the foregoing applicable terms, your use of the Mozy service is subject to the terms and conditions located at https://mozy.com/about/legal/terms.

You acknowledge having read and agree to be bound by the foregoing applicable terms in their entirety. Any terms and conditions set forth in your purchase order or any other correspondence that are in addition to, inconsistent or in conflict with, the f oregoing applicable online terms will be of no force or effect unless specifically agreed to in a writing signed by Dell that expressly references such terms.

**Pricing, Taxes, and Additional Information**

All product, pricing, and other information is valid for U.S. customers and U.S. addresses only, and is based on the latest information available and may be subject to change. Dell reserves the right to cancel quotes and orders arising from pricing or other errors. Please indicate any tax-exempt status on your PO, and fax your exemption certificate, including your Customer Number, to the Dell Tax Department at 800-433-9023. Please ensure that your tax-exemption certificate reflects the correct Dell entity name: **Dell Marketing L.P.**
Note: All tax quoted above is an estimate; final taxes will be listed on the invoice.

**If you have any questions regarding tax please send an e-mail to Tax_Department@dell.com.**

For certain products shipped to end-users in California, a State Environmental Fee will be applied to your invoice. Dell encourages customers to dispose of electronic equipment properly.


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# QUOTE CONFIRMATION

PEOPLE WHO GET IT

**DEAR DANIELLE GLIMCHER,**

Thank you for considering CDW•G for your computing needs. The details of your quote are below. Click here to convert your quote to an order.

| QUOTE # | QUOTE DATE | QUOTE REFERENCE | CUSTOMER # | GRAND TOTAL |
|---|---|---|---|---|
| JDLB191 | 8/7/2017 | JDLB191 | 8078719 | $509.00 |

**QUOTE DETAILS**

| ITEM | QTY | CDW# | UNIT PRICE | EXT. PRICE |
|---|---|---|---|---|
| InFocus IN124x DLP projector - 3D<br>Mfg. Part#: IN124X<br>UNSPSC: 45111609<br>Contract: Massachusetts OFF40 Audio Visual (OFF40) | 1 | 4248393 | $509.00 | $509.00 |

**PURCHASER BILLING INFO**

**Billing Address:**
FRAMINGHAM PUBLIC SCHOOLS
BUSINESS ADMINISTRATIONS
73 MOUNT WAYTE AVE STE 5
FRAMINGHAM, MA 01702-5803
**Phone:** (508) 626-9100
**Payment Terms:** NET 30 Days-Govt/Ed

| | |
|---|---|
| SUBTOTAL | $509.00 |
| SHIPPING | $0.00 |
| GRAND TOTAL | $509.00 |

**DELIVER TO**

**Shipping Address:**
FRAMINGHAM PUBLIC SCHOOLS
DANIELLE GLIMCHER
115 A ST RM K006
OFFICE OF TECHNOLOGY
FRAMINGHAM, MA 01701-4175
**Shipping Method:** UPS Ground (2- 3 Day)

**Please remit payments to:**

CDW Government
75 Remittance Drive
Suite 1515
Chicago, IL 60675-1515

Need Assistance? CDW•G SALES CONTACT INFORMATION

Chris Lipford | (855) 822-6530 | chrilip@cdwg.com

This quote is subject to CDW's Terms and Conditions of Sales and Service Projects at http://www.cdwg.com/content/terms-conditions/product-sales.aspx
For more information, contact a CDW account manager

© 2017 CDW•G LLC, 200 N. Milwaukee Avenue, Vernon Hills, IL 60061 | 800.808.4239

# A quote for your consideration!

Based on your business needs, we put the following quote together to help with your purchase decision. Please review your quote details below, then contact your sales rep when you're ready to place your order.

**Total:$815.00**

| Quote number: | Quote date: | Quote expiration: | Deal ID: |
|---|---|---|---|
| 3000014589928.1 | Jun. 9, 2017 | Jul. 9, 2017 | 12784311 |

| Company name: | Customer number: | Phone: | Purchase Order: |
|---|---|---|---|
| FRAMINGHAM PUBLIC SCHOOLS | 125651752 | (508) 626-9100 | 17112463 |

**Sales rep information:**
Russell Suits
Russell_Suits@Dell.com
(800) 456-3355
Ext: 5138586

**Bill to:**
FRAMINGHAM PUBLIC SCHOOLS
73 MOUNT WAYTE AVE STE 5
SJM
FRAMINGHAM
MA 01702-5803
US
(508) 626-9100

## Pricing Summary

| Item | Qty | Unit price | Subtotal |
|---|---|---|---|
| Dell Latitude 5480 | 1 | $815.00 | $815.00 |

| | |
|---|---|
| **Subtotal:** | $815.00 |
| **Shipping:** | $0.00 |
| **Environmental Fees:** | $0.00 |
| **Non-Taxable Amount:** | $815.00 |
| **Taxable Amount:** | $0.00 |
| **Estimated Tax:** | $0.00 |
| **Total:** | **$815.00** |

Special lease pricing may be available for qualified customers. Please contact your DFS Sales Representative for details.



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# Dear Customer,

Your Quote is detailed below; please review the quote for product and information accuracy. If you find errors or desire certain changes please contact me as soon as possible.
Regards,
Russell Suits
Order this quote easily online through your Premier page,
or if you do not have Premier, using Quote to Order

## Shipping Group 1

| Shipping Contact: | Shipping phone: | Shipping via: | Shipping Address: |
|---|---|---|---|
| DANIELLE GLIMCHER | (508) 782-6900 | Standard Ground | OFFICE OF TECHNOLOGY<br>115 A ST RM K006<br>FRAMINGHAM<br>MA 01701-4175<br>US |

| SKU | Description | Qty | Unit Price | Subtotal |
|---|---|---|---|---|
| | Dell Latitude 5480 | 1 | $815.00 | $815.00 |
| | **Estimated Delivery Date: Jun. 16 - Jun. 19, 2017** | | | |
| | **Contract Code: 78AFH** | | | |
| | **Customer Agreement No: ITC47** | | | |
| 210-AKCF | Dell Latitude 5480, BTX | 1 | - | - |
| 379-BCPQ | 7th Generation Intel Core i5-7300U (Dual Core, 2.60Gz, 3MB cache) | 1 | - | - |
| 619-AHKN | Win 10 Pro 64 English, French, Spanish | 1 | - | - |
| 658-BCSB | Microsoft(R) Office 30 Days Trial | 1 | - | - |
| 338-BKOL | Intel(R) Core(TM) i5-7300U Processor Base, Integrated HD Graphics 620 | 1 | - | - |
| 631-ABEG | Intel Vpro Technology Enable | 1 | - | - |
| 370-ADIB | 8G (1 X 8G) DDR4 Memory | 1 | - | - |
| 400-AOQO | 128GB M.2 2280 SSD | 1 | - | - |
| 575-BBKU | M.2 SSD SATA Hard Drive Bracket | 1 | - | - |
| 340-ADBJ | Thank You for Choosing Dell | 1 | - | - |
| 320-BCCX | Non Touch LCD Backcover, WWAN | 1 | - | - |
| 325-BCFN | Non-Touch bezel with camera | 1 | - | - |
| 391-BCZW | 35.6cm (14.0") Non-Touch Anti-Glare HD (1366 x 768) | 1 | - | - |
| 583-BDNW | Internal US-English Qwerty Dual Pointing Backlit | 1 | - | - |



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| | | | | |
|---|---|---|---|---|
| | Keyboard | | | |
| 570-AADK | No Mouse | 1 | - | - |
| 555-BDFW | Intel Dual-Band Wireless-AC 8265 Driver | 1 | - | - |
| 555-BDGD | Intel Dual-Band Wireless-AC 8265 Wi-Fi + BT 4.2 Wireless Card (2x2) | 1 | - | - |
| 362-BBBB | No Wireless WAN Card | 1 | - | - |
| 451-BBXV | Primary 4-cell 68W/HR Battery | 1 | - | - |
| 492-BBXF | 65W AC Adapter, 3-pin | 1 | - | - |
| 346-BCEL | Dual Pointing Palmrest Smart Card only | 1 | - | - |
| 634-BENZ | No DDP ESS Software | 1 | - | - |
| 954-3465 | No DDPE Encryption Software | 1 | - | - |
| 998-CIPG | Fixed Hardware Configuration | 1 | - | - |
| 450-AAEJ | US Power Cord | 1 | - | - |
| 340-ACQQ | No Option Included | 1 | - | - |
| 332-1286 | US Order | 1 | - | - |
| 430-XXYG | No Resource DVD | 1 | - | - |
| 460-BBEX | No Carrying Case | 1 | - | - |
| 340-BKJC | Windows 10 Placemat | 1 | - | - |
| 387-BBLZ | Energy Star 6.1 | 1 | - | - |
| 575-BBCH | No Stand included | 1 | - | - |
| 800-BBGW | Smart Selection Shipment (S) | 1 | - | - |
| 620-AAOH | No Media | 1 | - | - |
| 340-AGIK | Safety/Environment and Regulatory Guide (English/French Multi-language) | 1 | - | - |
| 340-ADFZ | Dell Power Manager | 1 | - | - |
| 525-BBCL | SupportAssist | 1 | - | - |
| 640-BBLW | Dell(TM) Digital Delivery Cirrus Client | 1 | - | - |
| 658-BBMR | Dell Client System Update (Updates latest Dell Recommended BIOS, Drivers, Firmware and Apps) | 1 | - | - |
| 658-BBRB | Waves Maxx Audio | 1 | - | - |
| 658-BCUV | Dell Developed Recovery Environment | 1 | - | - |
| 658-BDKD | System Shipment, Latitude 5480 | 1 | - | - |
| 452-BBSE | No Docking Station | 1 | - | - |
| 389-BCDK | EAN label | 1 | - | - |
| 340-AAPP | Directship Info Mod | 1 | - | - |
| 340-BKFX | Min Config Packaging DAO | 1 | - | - |
| 389-BEYY | Regulatory Label included | 1 | - | - |
| 409-BBKS | Intel Rapid Storage Technology | 1 | - | - |
| 389-BREQ | Intel Core i5 vPRO Label | 1 | - | - |
| 650-AAAM | No Anti-Virus Software | 1 | - | - |
| 975-3461 | Dell Limited Hardware Warranty Extended Year(s) | 1 | - | - |
| 997-8317 | Dell Limited Hardware Warranty | 1 | - | - |
| 997-8328 | Onsite/In-Home Service After Remote Diagnosis, 1 Year | 1 | - | - |
| 997-8332 | Onsite/In-Home Service After Remote Diagnosis, 2 Year Extended | 1 | - | - |
| 429-AATO | No Removable CD/DVD Drive | 1 | - | - |



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| | |
|---|---|
| **Subtotal:** | $815.00 |
| **Shipping:** | $0.00 |
| **Environmental Fees:** | $0.00 |
| **Estimated Tax:** | $0.00 |
| **Total:** | **$815.00** |



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# Important Notes

## Terms of Sale

Unless you have a separate written agreement that specifically applies to this order, your order will be subject to and governed by the following agreements, each of which are incorporated herein by reference and available in hardcopy from Dell at your request: Dell's Terms of Sale (www.dell.com/learn/us/en/uscorp1/terms-of-sale), which include a binding consumer arbitration provision and incorporate Dell's U.S. Return Policy (www.dell.com/returnpolicy) and Warranty (for Consumer warranties; for Commercial warranties).

If this purchase includes services: in addition to the foregoing applicable terms, the terms of your service contract will apply (Consumer; Commercial). If this purchase includes software: in addition to the foregoing applicable terms, your use of the software is subject to the license terms accompanying the software, and in the absence of such terms, then use of the Dell-branded application software is subject to the Dell End User License Agreement - Type A (www.dell.com/AEULA) and use of the Dell-branded system software is subject to the Dell End User License Agreement - Type S (www.dell.com/SEULA).

You acknowledge having read and agree to be bound by the foregoing applicable terms in their entirety. Any terms and conditions set forth in your purchase order or any other correspondence that are in addition to, inconsistent or in conflict with, the foregoing applicable online terms will be of no force or effect unless specifically agreed to in a writing signed by Dell that expressly references such terms.

## Pricing, Taxes, and Additional Information

All product, pricing, and other information is valid for U.S. customers and U.S. addresses only, and is based on the latest information available and may be subject to change. Dell reserves the right to cancel quotes and orders arising from pricing or other errors. Please indicate any tax-exempt status on your PO, and fax your exemption certificate, including your Customer Number, to the Dell Tax Department at 800-433-9023. Please ensure that your tax-exemption certificate reflects the correct Dell entity name: **Dell Marketing L.P.**
Note: All tax quoted above is an estimate; final taxes will be listed on the invoice.

**If you have any questions regarding tax please send an e-mail to Tax_Department@dell.com.**

For certain products shipped to end-users in California, a State Environmental Fee will be applied to your invoice. Dell encourages customers to dispose of electronic equipment properly.

**^Dell Business Credit (DBC):**

OFFER VARIES BY CREDITWORTHINESS AS DETERMINED BY LENDER. Offered by WebBank to Small and Medium Business customers with approved credit. Taxes, shipping and other charges are extra and vary. Minimum monthly payments are the greater of $15 or 3% of account balance. Dell Business Credit is not offered to government or public entities, or business entities located and organized outside of the United States.

***Dell Financial Services Lease:**

1. This proposal is property of Dell Financial Services and contains confidential information. This proposal shall not be duplicated or disclosed in whole or part. Minimum transaction size $500.
2. All terms are subject to credit approval, execution and return of mutually acceptable lease documentation.
3. Lease rates are based upon the final amount, configuration and specification of the supplied equipment. Interim rent may apply and be due in the first payment cycle.
4. The Lease Quote is exclusive of shipping costs, maintenance fees, filing fees, licensing fees, property or use taxes, insurance premiums and similar items, which shall be for Lessee's account.
5. This proposal is valid through the expiration date shown above, or, if none is specified, for 30 calendar days from date of presentation.



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# A quote for your consideration!

**Total: $229.00**

Based on your business needs, we put the following quote together to help with your purchase decision. Please review your quote details below, then contact your sales rep when you're ready to place your order.

| Quote number: | Quote date: | Quote expiration: | Deal ID: |
|---|---|---|---|
| 3000019280057.1 | Nov. 7, 2017 | Dec. 7, 2017 | 12784311 |

| Company name: | Customer number: | Phone: |
|---|---|---|
| FRAMINGHAM PUBLIC SCHOOLS | 125651752 | (508) 626-9100 |

**Sales rep information:**

Russell Suits
Russell_Suits@Dell.com
(800) 456-3355
Ext: 5138586

**Billing Information:**

FRAMINGHAM PUBLIC SCHOOLS
73 MOUNT WAYTE AVE
STE 5
SJM
FRAMINGHAM
MA 01702-5803
US
(508) 626-9100

## Pricing Summary

| Item | Qty | Unit Price | Subtotal |
|---|---|---|---|
| Chromebook 11 3180 | 1 | $204.00 | $204.00 |
| Chrome Education | 1 | $25.00 | $25.00 |
| | | **Subtotal:** | $229.00 |
| | | **Shipping:** | $0.00 |
| | | **Environmental Fees:** | $0.00 |
| | | **Non-Taxable Amount:** | $229.00 |
| | | **Taxable Amount:** | $0.00 |
| | | **Estimated Tax:** | $0.00 |
| | | **Total:** | **$229.00** |

Special lease pricing may be available for qualified customers. Please contact your DFS Sales Representative for details.


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## Dear Customer,

Your Quote is detailed below; please review the quote for product and information accuracy. If you find errors or desire certain changes please contact me as soon as possible.

Regards,

Russell Suits

Order this quote easily online through your Premier page, or if you do not have Premier, using Quote to Order

## Shipping Group 1

| Shipping Contact: | Shipping phone: | Shipping via: | Shipping Address: |
|---|---|---|---|
| DANIELLE GLIMCHER | (508) 626-9100 | Standard Ground | OFFICE OF TECHNOLOGY<br>115 A ST RM K006<br>FRAMINGHAM<br>MA 01701-4175<br>US |

| SKU | Description | Qty | Unit Price | Subtotal |
|---|---|---|---|---|
| | Chromebook 11 3180 | 1 | $204.00 | $204.00 |
| | **Estimated delivery date:** Nov. 14 - 17, 2017<br>**Contract No:** 78AFH<br>**Customer Agreement No:** ITC47 | | | |
| 210-AKSJ | Dell Chromebook 11 3180, BTX | 1 | - | - |
| 329-BDJR | Intel Celeron N3060 Processor with 4GB Memory and 16GB eMMC | 1 | - | - |
| 389-BHZJ | Intel(R) Label | 1 | - | - |
| 580-AFZH | US Int Dell KB216 Wired English Keyboard Black | 1 | - | - |
| 451-BBYY | Primary 3-Cell 42W/HR Battery | 1 | - | - |
| 391-BDDQ | 11.6" HD Non-Touch LCD | 1 | - | - |
| 320-BCEF | LCD Cover, Non-Touch (Black) | 1 | - | - |
| 389-BCGW | No UPC Label | 1 | - | - |
| 492-BBDD | 65 Watt AC Adaptor | 1 | - | - |
| 537-BBBL | US Power Cord | 1 | - | - |
| 340-AGIK | Safety/Environment and Regulatory Guide (English/French Multi-language) | 1 | - | - |
| 340-BLRC | Quick Setup Guide (English, French, Dutch) | 1 | - | - |


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| | | | | |
|---|---|---|---|---|
| 389-BKKL | EAN label | 1 | - | - |
| 340-AAPP | Direct ship Info Mod | 1 | - | - |
| 340-BLRS | Min Config Packaging | 1 | - | - |
| 340-BLRT | SHIP,CRMBK,3180,WW,MIN | 1 | - | - |
| 998-CKUE | Fixed Hardware Configuration | 1 | - | - |
| 800-BBGW | Smart Selection Shipment (S) | 1 | - | - |
| 340-AASE | No Setup and Features Guide | 1 | - | - |
| 340-ABJI | No Diagnostic/Recovery CD media | 1 | - | - |
| 631-ABBH | Not Included | 1 | - | - |
| 812-6904 | Dell Limited Hardware Warranty Initial Year | 1 | - | - |
| 812-6916 | Onsite/In-Home Service After Remote Diagnosis, 1 Year | 1 | - | - |

| SKU | Description | Qty | Unit Price | Subtotal |
|---|---|---|---|---|
| | Chrome Education | 1 | $25.00 | $25.00 |
| | **Estimated delivery date:** Nov. 27 - 30, 2017<br>**Contract No:** 78AFH<br>**Customer Agreement No:** ITC47 | | | |
| A7611038 | Chrome Education | 1 | - | - |

| | |
|---|---|
| **Subtotal:** | $229.00 |
| **Shipping:** | $0.00 |
| **Environmental Fees:** | $0.00 |
| **Estimated Tax:** | $0.00 |
| **Total:** | **$229.00** |


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If this purchase includes services: in addition to the foregoing applicable terms, the terms of your service contract will apply (Consumer;Commercial). If this purchase includes software: in addition to the foregoing applicable terms, your use of the software is subject to the license terms accompanying the software, and in the absence of such terms, then use of the Dell-branded application software is subject to the Dell End User License Agreement - Type A (www.dell.com/AEULA) and use of the Dell-branded system software is subject to the Dell End User License Agreement - Type S ( www.dell.com/SEULA).

If your purchase is for Mozy, in addition to the foregoing applicable terms, your use of the Mozy service is subject to the terms and conditions located at https://mozy.com/about/legal/terms.

You acknowledge having read and agree to be bound by the foregoing applicable terms in their entirety. Any terms and conditions set forth in your purchase order or any other correspondence that are in addition to, inconsistent or in conflict with, the f oregoing applicable online terms will be of no force or effect unless specifically agreed to in a writing signed by Dell that expressly references such terms.

**Pricing, Taxes, and Additional Information**

All product, pricing, and other information is valid for U.S. customers and U.S. addresses only, and is based on the latest information available and may be subject to change. Dell reserves the right to cancel quotes and orders arising from pricing or other errors. Please indicate any tax-exempt status on your PO, and fax your exemption certificate, including your Customer Number, to the Dell Tax Department at 800-433-9023. Please ensure that your tax-exemption certificate reflects the correct Dell entity name: **Dell Marketing L.P.**
Note: All tax quoted above is an estimate; final taxes will be listed on the invoice.

**If you have any questions regarding tax please send an e-mail to Tax_Department@dell.com.**

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# FY2019 Recommended: Bond $900,000

| | | | |
|---|---|---|---|
| **Project Number:** | FPS/B&G/2019/FAR19 | **Budget Year:** | 2019 |
| **Project Title:** | Farley Renovation | **Scenario:** | Main 2019 |
| **Asset Type:** | SCHOOL BUILDING | **Budget Status:** | Department Request |
| **Department:** | C3-971 - Building & Grounds Department | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | TBD | **Project Partner:** | |
| **Est. Completion Date:** | TBD | | |

## Description:

Farley Renovation

## Comments:

Although we await the results of the Fuller School MSBA Feasibility Study to determine whether the Farley Building will be prepared for swing space or a temporary home for staff and students' while the new Fuller is being constructed, we do know that all of the other occupants, i.e. Buildings and Grounds, Parent Information Center, Town Board of Health Department, Adult ESL, Truant Officer and ECA (Early Childhood Assessment) will require a new home. It remains to be seen where those offices will relocate too.

We anticipate that the Farley Building will become a mixed use building and will house some form of education, whether it be Mass Bay Community College or FPS, (Adult ESL or something else) is still to be determined but we know that will need to house Maintenance, Administrative and some education.

## Justification:

The Fuller School houses currently the Buildings and Grounds Department comprised of the Buildings and Grounds office and maintenance shop as well as vehicle and equipment storage.
The Department occupies approximately 30,000 square feet. We have preparations and designs of the Farley Building in the existing pool and locker room area and plan to relocate and house the B &G Departments at Farley in that area of the building. A new roof and exterior siding as well as demolition and infill of the existing pool were done last year and an overhead door was installed in preparation of converting the pool to a maintenance garage and shop for Buildings and Grounds.

The next phase of work will include demolition of existing C.M.U. walls, and plaster ceilings in the locker room areas – reframing new partitions per the architects plan, purchasing and installing a new HVAC unit, fire alarm, electrical, plumbing and mechanical systems and installation of new concrete floors are where the swimming pool was.

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 900,000 | 0 | 900,000 |
| | **900,000** | **0** | **900,000** |

**3. Farley Renovation**

**FY19:**

The Fuller School houses currently the Buildings and Grounds Department comprised of the Buildings and Grounds office and maintenance shop as well as vehicle and equipment storage. The Department occupies approximately 30,000 square feet. We have preparations and designs of the Farley Building in the existing pool and locker room area and plan to relocate and house the B &G Departments at Farley in that area of the building. A new roof and exterior siding as well as demolition and infill of the existing pool were done last year and an overhead door was installed in preparation of converting the pool to a maintenance garage and shop for Buildings and Grounds.

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We anticipate that the Farley Building will become a mixed use building and will house some form of education, whether it be Mass Bay Community College or FPS, (Adult ESL or something else) is still to be determined but we know that will need to house Maintenance, Administrative and some education.

**$835,000**

October 2, 2017

# Proposal for Electrical Engineering Services

Matt Torti, director
Buildings and Grounds Department
Framingham Public Schools
31 Flagg Drive, Suite 6
Framingham, Massachusetts 01702

**Interior Alterations**
**Buildings and Grounds Department**
**Former Farley School**
**Flagg Drive**
**Framingham, Massachusetts**

Mr. Torti,

As consultants for engineering services in conjunction with architectural services provided by Haynes, Lieneck, and Smith, Inc.; Shepherd Engineering, Inc. offers to provide electrical engineering services at the former Farley School to modify the locker rooms for offices for the Buildings and Grounds Department and to fit up the former natatorium as a shop and vehicle storage with a mezzanine along one side. For a fixed fee of **$10,000.00** Shepherd Engineering, Inc. proposes to provide Electrical Engineering Services for bid ready construction documents for the following work:

> In the Buildings and Grounds Department provide power distribution, lighting, egress lighting, and fire alarm connected to existing systems
>
> In the shop area and vehicle parking area, provide power distribution, lighting, egress lighting, and fire alarm connected to existing systems including power distribution for equipment with emergency shut off and including power to safety disconnect switch for roof mounted mechanical equipment
>
> For the mezzanine, provide power distribution, lighting, egress lighting, and fire alarm connected to existing systems.

Shepherd Engineering, Inc. understands that the drawings of the original construction are available.

Please advise of any questions.

Submitted for

Shepherd Engineering, Inc.
1308 Grafton Street
Worcester, Massachusetts 01604

HAYNES LIENECK AND SMITH INC ARCHITECTS

10 Common Road
Post Office Box 128
Ashby, Massachusetts 01431-0128
(978) 386-2473
(978) 386-2474 (facsimile)

September 30, 2017

Carol Brodeur, executive assistant
Framingham Public Schools
Buildings and Grounds Department
73 Mount Wayte Avenue, Suite #5
Framingham, Massachusetts 01702

**Architect's Project 1918**
**Interior Alterations**
**Building and Grounds Department**
**Framingham Public Schools**
**Former Farley School**
**19 Flagg Drive**
**Framingham, Massachusetts**

**INVOICE 7076**

Basic Services: $ 1,101.25

Compensation for architectural services involved with preparing floor plan of Buildings and Grounds Department and with budget cost estimate.

**SUMMARY OF EMPLOYEE TIME**

| PERIOD ENDING | EMPLOYEE | HOURS | AMOUNT | TASK |
|---|---|---|---|---|
| 2017-09-09 | PSL | 1.25 | 118.75 | Review scope of work; budget costs based on area: build out locker room, mezzanine, floor slab in shop; electronic messages |
| 2017-09-23 | PSL | 0.75 | 71.25 | Floor plan sketches; verify scope of work |
| 2017-09-23 | CPL | 5.50 | 247.50 | Floor plan: Buildings and Grounds Department |
| 2017-09-30 | PSL | 2.25 | 213.75 | Floor plan sketch; met M. Torti, Carol Brodeur, B. Parker; reviewed scope of work; site observations; reviewed scope of work with custodial staff |
| 2017-09-30 | CPL | 20.00 | 450.00 | Floor plan; demolition: floor plan |
| **Total** | | | 1,101.25 | |

**Amount Due.....$ 1,101.25**

October 2, 2017

# Proposal for Mechanical Engineering Services

Matt Torti, director
Buildings and Grounds Department
Framingham Public Schools
31 Flagg Drive, Suite 6
Framingham, Massachusetts 01702

**Interior Alterations**
**Buildings and Grounds Department**
**Former Farley School**
**Flagg Drive**
**Framingham, Massachusetts**

Matt

As consultants for engineering services in conjunction with architectural services provided by Haynes, Lieneck, and Smith, Inc.; Seaman Engineering Corporation offers to provide mechanical engineering services at the former Farley School to modify the locker rooms for offices for the Buildings and Grounds Department and to fit up the former natatorium as a shop and vehicle storage with a mezzanine along one side. For a fixed fee of **$15,000.00** Seaman Engineering Corporation proposes to provide Mechanical Engineering Services for bid ready construction documents for the following work:

> In the Buildings and Grounds spaces provide plumbing engineering for disconnecting existing locker room shower facilities and for providing kitchenette sinks, a men's toilet, and any other plumbing needed.
>
> In the vehicle parking area, provide plumbing engineering services for an under slab drainage system for 15 vehicles including floor drains, underground piping, oil and gasoline separator on the exterior, vent piping, and connection to waste piping on site
>
> Provide mechanical systems engineering to modify the existing systems to separate the two student toilet rooms and to provide heating, ventilating, and air conditioning for the Buildings and Grounds Department
>
> Provide mechanical engineering to replace the roof top air handling unit in the natatorium to provide heating, ventilating, and air conditioning for the shop space and vehicle parking area
>
> Provide mechanical engineering to provide heating and ventilation for any mezzanine space

Seaman Engineering Corporation understands that the drawings of the original construction are available for inspection and that the existing ceiling will be removed in the lockers rooms to expose the existing mechanical systems which currently include heating, ventilating, and air conditioning for the locker room areas.

Please advise of any questions.

Submitted for

Seaman Engineering Corporation
30 Faith Avenue
Auburn, Massachusetts 01501

# FY2019 Recommended: Bond $200,000

| | | | |
|---|---|---|---|
| **Project Number:** | FPS/B&G/2019/H | **Budget Year:** | 2019 |
| **Project Title:** | Security Enhancement Throughout the District | **Scenario:** | Main 2019 |
| **Asset Type:** | | **Budget Status:** | Department Request |
| **Department:** | C3-971 - Building & Grounds Department | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | July 1, 2018 | **Project Partner:** | |
| **Est. Completion Date:** | TBD | | |

## Description:

Security Enhancement Throughout the District

## Comments:

The School Department has implemented increased security measures throughout the District and is mindful of past and ongoing school related security events across our nation. The District greatly expanded its security in the spring of 2013. This request for funding will further support and enhance security measures for all our schools.

## Justification:

For the FY19 school year, the District is requesting funding for the following:

The Walsh school is a 26 camera add, based on the walkthrough with the principal. Most of these cameras were installed in 2011. There are some very old analog cameras that are being encoded to IP and some cameras that existed prior to BCM being your integrator. This will improve the camera images throughout.

Upgrades to all the IP based 2MP fixed dome cameras at the Framingham High School to the new state of the art 2 MP Axis P3365 cameras throughout. Add 10 new IP cameras at locations to be determined.

Vendor - BCM

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 200,000 | 0 | 200,000 |
| | **200,000** | **0** | **200,000** |

## 7. School Department Security Enhancement throughout the District

**FY19:**

The School Department has implemented increased security measures throughout the District and is mindful of past and ongoing school related security events across our nation. The District greatly expanded its security in the spring of 2013. This request for funding will further support and enhance security measures for all our schools. For the FY19 school year, the District is requesting funding for the following:

The Walsh school is a 26 camera add, based on the walkthrough with the principal. Most of these cameras were installed in 2011. There are some very old analog cameras that are being encoded to IP and some cameras that existed prior to BCM being your integrator. This will improve the camera images throughout.

Upgrades to all the IP based 2MP fixed dome cameras at the Framingham High School to the new state of the art 2 MP Axis P3365 cameras throughout. Add 10 new IP cameras at locations to be determined.

Vendors
BCM

**$200,000**

BCM Controls Corporation
30 Commerce Way, Woburn, Massachusetts 01801
Phone: 781-933-8878 Fax: 781-932-3856

# BCM CONTROLS PROPOSAL

| | |
|---|---|
| Date: | 10/14/2017 |
| Reference: | |
| | Page 1 of 3 |
| Project Name: | Walsh CCTV additions |
| Project Location: | Framingham Ma |
| Customer Project #: | |
| | |
| BCM Project #: | |
| | |
| Submitted By: | Tim Talbot |
| Copy To: | |

**Proposal To:**

**Attention:**
Ernie Moreau

**BCM Controls is pleased to propose the following scope of work:**

Provide and install all necessary equipment to add (26) cameras throughout the Walsh school. Main focus of new cameras are bathroom entrances, stairwells, lockers and general hallway activity.

COMFORT SYSTEMS USA®
BCM Controls Corporation
30 Commerce Way, Woburn, Massachusetts 01801
Phone: 781-933-8878 Fax: 781-932-3856

## BCM CONTROLS FAC64 PRICING

| | |
|---|---|
| Date: | 10/14/2017 |
| Reference: | |
| | Page 2 of 3 |
| Project Name: | Walsh CCTV additions |

**BCM Controls is pleased to propose the Material/Labor as referenced in the Scope of Work:**

| Quantity | Manufacturer | Model / Description | % Off | List Price | Unit Price | Total Price |
|---|---|---|---|---|---|---|
| 26 | Axis | P3365-V | 1% | 799.00 | 791.01 | 20,566 |
| 26 | Milestone | Camera license | 1% | 199.00 | 197.01 | 5,122 |
| 26 | Milestone | Camera license SMA (1-Year) | 1% | 36.00 | 35.64 | 927 |
| 1 | BCM | BCMDL06092620E 5.6 TB storage | 30% | 6,743.00 | 4,720.10 | 4,720 |
| 1 | | Miscellaneous Installation Materials | | | 3,500.00 | 3,500.00 |
| | | **Total Materials** | | | | **34,835** |
| **Hours** | | **Description** | | | **Unit Price** | **Total Cost** |
| | | Non Prevailing Wage | | | | |
| | | Sr. Project Manager | | | | |
| 16 | | Project Manager | | | 149.00 | $2,384 |
| 72 | | Programmer / Software Technician | | | 119.00 | $8,568 |
| 12 | | Design Engineer | | | 149.00 | $1,788 |
| | | Prevailing Wage | | | | |
| | | Installation Foreman (Electrician) | | | | |
| 180 | | Technician (Telecom Tech) | | | 123.21 | $22,177 |
| | | Installer (Electrician) | | | 149.00 | |
| | | **Total Labor** | | | | **$34,917** |
| | | **Total Project** | | | | **$69,753** |

COMFORT SYSTEMS USA

BCM Controls Corporation

30 Commerce Way, Woburn, Massachusetts 01801

Phone: 781-933-8878 Fax: 781-932-3856

# BCM CONTROLS PROPOSAL

| | |
|---|---|
| Date: | 10/14/2017 |
| Reference: | |
| | Page 3 of 3 |
| Project Name: | Walsh CCTV additions |
| Project Location: | Framingham Ma |
| Customer Project #: | |
| | |
| BCM Project #: | |
| | |
| Submitted By: | Tim Talbot |
| Copy To: | |

**Proposal To:**

| |
|---|
| **Attention:** |
| Ernie Moreau |
| 0 |
| 0 |
| 0 |
| 0 |

**Notes and Clarifications**

- Installation during regular business hours
- BCM to provide complete installation, including engineering, project management, programming, testing and user training
- TCP/IP LAN/WAN network connectivity by others
- 120V/AC power and UPS/surge protection at BCM devices by others
- BCM to provide warranty as per FAC64

Proposal type

○ T & M ○ T & M not to exceed ◉ Fixed Price

Overtime

◉ All work on straight-time ○ Overtime included

This proposal is valid for

◉ 30 days ○ 60 days ○ 90 days

Payment terms

◉ Net 30 days ○ Existing contract format

All materials are of the description specified. Work will be performed in accord with standard practice. Any change is subject to material agreement, and in the event of such change, an equitable adjustment will be made in price. Not responsible for any cause or condition beyond our control. Purchaser responsible for all necessary insurance. Payment will be made to BCM Controls according to payment terms above. The extension of credit is subject to approval.

**The above proposal is accepted and you are authorized to proceed for the sum indicated in this proposal.**

Date of Acceptance _____ Accepted By: _____

Purchase order # _____ Printed Name: _____

BCM Controls Corporation
30 Commerce Way, Woburn, Massachusetts 01801
Phone: 781-933-8878 Fax: 781-932-3856

# BCM CONTROLS PROPOSAL

| | |
|---|---|
| Date: | 10/14/2017 |
| Reference: | |
| | Page 1 of 3 |
| Project Name: | FY18 CCTV Upgrade |
| Project Location: | Framingham Ma |
| Customer Project #: | |
| | |
| BCM Project #: | |
| | |
| Submitted By: | Tim Talbot |
| Copy To: | |

**Proposal To:**

**Attention:**
Ernie Moreau

**BCM Controls is pleased to propose the following scope of work:**

BCM Controls proposes to upgrade all the FPS cameras to IP based 2MP fixed dome cameras. The existing cameras are made up of (29) legacy analog cameras, (29) 1MP IP cameras and (9) IP cameras of unknown origin. All cameras will be upgraded to new state of the art 2 MP Axis P3365 cameras throughout. This proposal includes reusing the existing coax cable to convert signals to ethernet with Altronix converters. Proposal also includes adding (10) new IP cameras at locations to be determined.
This is a turnkey proposal that includes providing, installing, programming and 1-year warranty.

COMFORT SYSTEMS USA
BCM Controls Corporation
30 Commerce Way, Woburn, Massachusetts 01801
Phone: 781-933-8878 Fax: 781-932-3856

## BCM CONTROLS FAC64 PRICING

| | |
|---|---|
| Date: | 10/14/2017 |
| Reference: | |
| | Page 2 of 3 |
| Project Name: | FY18 CCTV Upgrade |

**BCM Controls is pleased to propose the Material/Labor as referenced in the Scope of Work:**

| Quantity | Manufacturer | Model / Description | % Off | List Price | Unit Price | Total Price |
|---|---|---|---|---|---|---|
| 77 | Axis | P3365-V | 1% | 799.00 | 791.01 | 60,908 |
| 2 | Altronix | Ebridge 16PCRM | 35% | 3,390.00 | 2,203.50 | 4,407 |
| 29 | Altronix | Ebridge1PCRM | 35% | 311.00 | 202.15 | 5,862 |
| 1 | Altronix | Ebridge4PCRM | 35% | 795.00 | 516.75 | 517 |
| 10 | Milestone | XPECL Camera License | 1% | 199.00 | 197.01 | 1,970 |
| 10 | Milestone | XPEBL License SMA | 1% | 36.00 | 35.64 | 356 |
| 1 | | Miscellaneous Installation Materials | | | 750.00 | 750.00 |
| | | **Total Materials** | | | | **74,770** |
| **Hours** | | **Description** | | | **Unit Price** | **Total Cost** |
| | | Non Prevailing Wage | | | | |
| | | Sr. Project Manager | | | | |
| 40 | | Project Manager | | | 149.00 | $5,960 |
| 300 | | Programmer / Software Technician | | | 119.00 | $35,700 |
| 24 | | Design Engineer | | | 149.00 | $3,576 |
| | | Prevailing Wage | | | | |
| | | Installation Foreman (Electrician) | | | | |
| 80 | | Technician (Telecom Tech) | | | 123.21 | $9,857 |
| | | Installer (Electrician) | | | 149.00 | |
| | | **Total Labor** | | | | **$55,093** |
| | | **Total Project** | | | | **$129,863** |

BCM Controls Corporation
30 Commerce Way, Woburn, Massachusetts 01801
Phone: 781-933-8878 Fax: 781-932-3856

# BCM CONTROLS PROPOSAL

| | |
|---|---|
| Date: | 10/14/2017 |
| Reference: | |
| | Page 3 of 3 |
| Project Name: | FY18 CCTV Upgrade |
| Project Location: | Framingham Ma |
| Customer Project #: | |
| | |
| BCM Project #: | |
| | |
| Submitted By: | Tim Talbot |
| Copy To: | |

**Proposal To:**

| |
|---|
| **Attention:** |
| Ernie Moreau |
| 0 |
| 0 |
| 0 |
| 0 |

**Notes and Clarifications**

- Installation during regular business hours
- BCM to provide complete installation, including engineering, project management, programming, testing and user training
- TCP/IP LAN/WAN network connectivity by others
- 120V/AC power and UPS/surge protection at BCM devices by others
- BCM to provide warranty as per FAC64

Proposal type
○ T & M ○ T & M not to exceed ◉ Fixed Price

Overtime
◉ All work on straight-time ○ Overtime included

This proposal is valid for
◉ 30 days ○ 60 days ○ 90 days

Payment terms
◉ Net 30 days ○ Existing contract format

All materials are of the description specified. Work will be performed in accord with standard practice. Any change is subject to material agreement, and in the event of such change, an equitable adjustment will be made in price. Not responsible for any cause or condition beyond our control. Purchaser responsible for all necessary insurance. Payment will be made to BCM Controls according to payment terms above. The extension of credit is subject to approval.

**The above proposal is accepted and you are authorized to proceed for the sum indicated in this proposal.**

Date of Acceptance _____ Accepted By: _____

Purchase order # _____ Printed Name: _____

# FY2019 Recommended: Free Cash $220,000

| | | | |
|---|---|---|---|
| **Project Number:** | FPS/B&G/2019/J | **Budget Year:** | 2019 |
| **Project Title:** | Charlotte Dunning Playground | **Scenario:** | Main 2019 |
| **Asset Type:** | SCHOOL BUILDING | **Budget Status:** | Department Request |
| **Department:** | C3-971 - Building & Grounds Department | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2018 | **Manager:** | |
| **Start Date:** | July 1, 2018 | **Project Partner:** | |
| **Est. Completion Date:** | August 31, 2018 | | |

## Description:

.
Charlotte Dunning Playground

## Comments:

The Dunning School P.T.O. is currently fund raising and planning a $20,000 investment into new swings as part of the upgrade. The School is also looking into A.D.A. funds and grant funds to help offset the cost of the two playgrounds.

## Justification:

The existing playground equipment is out of date and requires replacement. The existing parking and driveways were upgraded this year when some existing play structures had to be removed

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 220,000 | 0 | 220,000 |
| | **220,000** | **0** | **220,000** |

**9. Charlotte Dunning Playgrounds Equipment Replacement**

**FY19:**

Charlotte Dunning Elementary School is in need of new playground equipment. The existing playground equipment is out of date and requires replacement. The existing parking and driveways were upgraded this year when some existing play structures had to be removed.

The Dunning School P.T.O. is currently fund raising and planning a $20,000 investment into new swings as part of the upgrade. The School is also looking into A.D.A. funds and grant funds to help offset the cost of the two playgrounds.

**$ 220,000**

10/12/2017


**Ultiplay Parks and Playgrounds**
**Uxbridge, MA 01569**
**Joe McMahon**
**508-294-6518**


Town of Framingham
Framingham School Department
Playground estimate for Dunning Elementary School

| | | |
|---|---|---|
| Right side play area | | |
| Dunning B2-DIG | 2018 cost | $129,355 |
| Equipment purchased by PTO but in design | | ($8,559) |
| Shipping of play equipment | | $1,945 |
| Discount | | ($18,119) |
| **Total play equipment** | | **$104,622** |
| | | |
| **Installation options** | | |
| Ultiplay installation at prevailing wage | | $29,000 |
| Community-build supervision | | $4,000 |
| | | |
| Additional surfacing needed. | | $4,500 |
| Site work | | $2,700 |
| | | |
| **Left side play area** | | $54,258 |
| Discount | | ($8,139) |
| Shipping of play equipment | | $4,045 |
| **Total Play equipment** | | **$50,164** |
| | | |
| Ultiplay installation at prevailing wage | | $14,547 |
| Community-build installation | | $4,000 |
| | | |
| Additional surfacing needed | | $2,400 |

# FY2019 Recommended: Bond $300,000

| | | | |
|---|---|---|---|
| **Project Number:** | FPS/B&G/2019/K | **Budget Year:** | 2019 |
| **Project Title:** | Bathroom Renovations Barbieri School - ADA | **Scenario:** | Main 2019 |
| **Asset Type:** | | **Budget Status:** | Department Request |
| **Department:** | C3-971 - Building & Grounds Department | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | July 1, 2018 | **Project Partner:** | |
| **Est. Completion Date:** | August 31, 2018 | | |

## Description:

ADA Bathroom Renovations at the Barbieri School.

## Comments:

## Justification:

The existing bathrooms at the Barbieri Elementary School do not comply with the A.D.A. code requirements. In addition, the existing facilities were built in 1972 as Middle School therefor the height of the bathroom fixtures do not comply with the elementary school requirements. The proposed renovation addresses the boys and girls gang toilet room on the first and second floor for a total of 4 restrooms, (2 boys & 2 girls). There are additional bathrooms that will require updates in the future.

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 300,000 | 0 | 300,000 |
| | **300,000** | **0** | **300,000** |

# FY2019 Recommended: Bond $800,000

| | | | |
|---|---|---|---|
| **Project Number:** | FPS/B&G/2019/K/Request | **Budget Year:** | 2019 |
| **Project Title:** | Masonry Repointing - Stapleton Elementary School | **Scenario:** | Main 2019 |
| **Asset Type:** | SCHOOL BUILDINGS | **Budget Status:** | Department Request |
| **Department:** | C3-971 - Building & Grounds Department | **Regions:** | |
| **Project Type:** | Historic Building Structure | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | July 1, 2018 | **Project Partner:** | |
| **Est. Completion Date:** | August 31, 2018 | | |

## Description:

Masonry Repointing - Stapleton Elementary School

## Comments:

Please note that the original estimate is based upon the entire building. It remains to be seen once the designer does his full study which section of the buildings may or may not be worked on. This is because although some of the building was built in 1922, two other sections were built in the 1950's and in 1970 there was an addition of the library and gymnasium so that this brick exterior in those areas may not need upgrading so the million dollar request is just a placeholder based on B H & A's estimate.

April 2014 Town Meeting approved funding in the amount of $48,000.00 for the design portion of this project which is currently out to bid.

## Justification:

The Stapleton Elementary School is in need of exterior envelope upgrades as well as masonry repointing and steel lintel replacement as needed above windows to prevent damaged caused by moisture infiltration and support capital investments previously made to this historical building

Masonry Repointing at the Stapleton School has been deferred since 2014 due to limited funding. The original building is 1922 construction. The mortar joints between the brick masonry exterior façade is original to that construction. The entire exterior brick, mortar, flashing and sealants need to be assessed and upgraded as required in order to keep the building weather tight.

This historic building is in need of repointing and we request the funds to preserve this historic educational facility.
$970,000

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 800,000 | 0 | 800,000 |
| | **800,000** | **0** | **800,000** |

# FY2019 Recommended: Free Cash $250,000

| | | | |
|---|---|---|---|
| **Project Number:** | FPS/B&G/2019/L | **Budget Year:** | 2019 |
| **Project Title:** | Furnish New and Replace Outdated Furniture multiple schools | **Scenario:** | Main 2019 |
| **Asset Type:** | | **Budget Status:** | Department Request |
| **Department:** | C3-971 - Building & Grounds Department | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | July 1, 2018 | **Project Partner:** | |
| **Est. Completion Date:** | August 31, 2018 | | |

## Description:

Furnish New and Replace Outdated Furniture

## Comments:

In order to address District population growth at the elementary level, the King School has been reopened as an elementary school in FY17, and new furniture has been purchased. Current population growth is prompting changes in the District with the King School being converted to a ninth elementary school. Kindergarten students were placed at the King School in FY16 with an additional grade level added each subsequent year until it reaches capacity as a K-5 school in 5 years.

## Justification:

The majority of schools have the same furniture that was purchased during their construction in the sixties. Although there are many pieces of relatively new furniture in the schools, there is no way to refurbish the 255 classrooms that still use outdated furniture. Current teaching methods and modern technology in the elementary and middle school grades require the use of laptop and other devices.

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 250,000 | 0 | 250,000 |
| | **250,000** | **0** | **250,000** |

# FY2019 Recommended: Free Cash $75,000

| | | | |
|---|---|---|---|
| **Project Number:** | FPS/B&G/2019/MSBA-2 | **Budget Year:** | 2019 |
| **Project Title:** | Pre - Feasibility Study – Hemenway Elementary School - MOVED UP | **Scenario:** | Main 2019 |
| **Asset Type:** | | **Budget Status:** | Department Request |
| **Department:** | C3-971 - Building & Grounds Department | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | TBD | **Project Partner:** | |
| **Est. Completion Date:** | TBD | | |

## Description:

Pre-Feasibility Study (Hemenway Elementary School)

## Comments:

The District is considering replacement of the Hemenway Elementary School Building as part of the ongoing Capital Asset Planning and required maintenance of the overall building infrastructure. We believe Hemenway to be of the most need for replacement.

This Pre-Feasibility study is a first step in submitting a Statement of Interest to the MSBA for consideration of being invited into the MSBA reimbursement program.

## Justification:

The Massachusetts School Building Authority (MSBA) offers a reimbursement program for major renovation and new construction projects. The City of Framingham is eligible for almost 58 % reimbursement for costs related to those large construction projects.

A Pre-Feasibility study is required to evaluate the existing building, examine the demographic needs of the district and to determine whether a new school building or renovation to an existing building is warranted. It may also be determined that an alternative site is best as a new building may be constructed without interruption to the existing building and operations.

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 75,000 | 0 | 75,000 |
| | **75,000** | **0** | **75,000** |

# FY2019 Recommended: Free Cash $90,000

| | | | |
|---|---|---|---|
| **Project Number:** | FPS/B&G/2019/N/ | **Budget Year:** | 2019 |
| **Project Title:** | B & G Ford 450 Bucket Truck - Replacement | **Scenario:** | Main 2019 |
| **Asset Type:** | SCHOOL EQUIPMENT | **Budget Status:** | Department Request |
| **Department:** | C3-971 - Building & Grounds Department | **Regions:** | |
| **Project Type:** | School Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | Jul 1, 2018 | **Project Partner:** | |
| **Est. Completion Date:** | Aug 31, 2018 | | |

## Description:

The Buildings and Grounds Department is requesting the following truck:

Currently the Buildings and Grounds department owns one “Sky Jack” condor type boom lift. This piece of equipment is now 18 years old. We utilize the piece of equipment to gain access to school buildings and parking lot light up to 28’ in height. Currently we load this equipment onto a trailer and pull the trailer with a pick-up truck to whatever destination require performing needed work.

## Comments:

## Justification:

Instead of replacing this life-in-kind, we propose the purchase a bucket truck in order to eliminate the need of the boom lift having to be loaded and unloaded and transported. This would save time, money and improve safety concerns in many ways (i.e. transporting, loading / unloading replacement of antiquated equipment).

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 99,000 | 0 | 99,000 |
| | **99,000** | **0** | **99,000** |

# FY2019 Recommended: Free Cash $105,000

| | | | |
|---|---|---|---|
| **Project Number:** | FPS/B&G/2019/O/Request | **Budget Year:** | 2019 |
| **Project Title:** | Stapleton - Rubber Gym Floor and Walsh - Floors Refinishing | **Scenario:** | Main 2019 |
| **Asset Type:** | | **Budget Status:** | Department Request |
| **Department:** | C3-971 - Building & Grounds Department | **Regions:** | |
| **Project Type:** | School Building Structure | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | July 1, 2018 | **Project Partner:** | |
| **Est. Completion Date:** | Aug 31, 2018 | | |

## Description:

Stapleton - Rubber Gym Floor and Walsh - Floors Refinishing

## Comments:

The Walsh School wood gym floors requires sanding and refinishing and the Stapleton Elementary School rubber gym floor requires complete replacement.

Proposal costs include:

- Demolition
- Removal
- Installation

## Justification:

The gym at the Stapleton School is in desperate need of new gymnasium flooring. American Sport Floors proposes to remove and install a new gymnasium floor (4,895 square) at the Stapleton Elementary School and the Walsh School gymnasium floor requires sanding and refinishing.

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 105,000 | 0 | 105,000 |
| | **105,000** | **0** | **105,000** |

# FY2019 Requested: Deferred to FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | FIRE/Fire/2019/A | **Budget Year:** | 2019 |
| **Project Title:** | Engine 2 Fire Truck Asset Replacement | **Scenario:** | Main 2019 |
| **Asset Type:** | FIRE TRUCKS | **Budget Status:** | Department Request |
| **Department:** | C7-220 - Fire | **Regions:** | |
| **Project Type:** | Public Safety Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | Jul 2, 2018 | **Project Partner:** | |
| **Est. Completion Date:** | Jan 1, 2019 | | |

**Description:**

Replace Engine 2

**Comments:**

**Justification:**

In FY19, Engine 2 will have met the department's criteria for normal replacement. Due to the conditions at the Fire Station in Saxonville, current Engine 2 has significant frame rust/deterioration that will pose a safety risk to firefighters and has accelerating maintenance costs as a primary-response truck. The condition of the frame, and constant changes to fire truck standards of the National Fire Protection Association, make the cost of repairing and updating the current Engine 2 ineffective as a primary-response truck. Included in the replacement cost is the cost for an updated radio for the new Engine 2 compatible with the current radio system, and a set of tools for the new Engine 2 that meet today's fire department standards.

**Description:**

**Comments:**

**Project Forecast**

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 687,649 | 0 | 687,649 |
| | **687,649** | **0** | **687,649** |

October 11, 2073

Town of Framingham
Attn: Chief Hicks
10 Loring Drive
Framingham, MA 01702

RE: Budget Letter For Fire Pumper Calendar Year 2018

Chief Hicks,

Please accept this letter outlining what I will forecast as a budget number for the purchase of a Pierce Arrow XT® 1500 GPM Pumper in the calendar year 2018.

Using the pumper unit that is currently in your fleet and a three percent annual forecasted increase rates year over year, I will forecast the cost of a similar unit in 2014 to be six hundred forty-eight thousand, five hundred and eight dollars ($648,508.00).

Chief, as you well know many factors can come into play between now and the next twelve months as to cost drivers or even savings. Obviously if the cost are favorable this would be reflected in our bid presentation and the same if the market adjusted upward greater than three percent.

We are grateful that we have had the opportunity to serve the Framingham Fire Department, its Membership and its residence's. We look forward to a continued relationship and the opportunity to earn your future business. You are a valued customer to Minuteman Fire and Rescue Apparatus and Pierce Manufacturing.

If there is anything else that I can assist you with regarding this matter please feel free to contact me.

Bill O'Connor, Sales Manager
Minuteman Fire & Rescue Apparatus, Inc
2181 Providence Highway
Walpole, MA 02081
508-216-6366

_____
William K. O'Connor, Sales Manager

# FIREMATIC SUPPLY CO., INC.

23 Birch Street, Milford, Mass. 01757
Phone: 978-815-5181 FAX: (978) 422-9621
pcavalieri@firematic.com
WebSite: www.firematic.com

# Quote

| DATE | PAGE |
|---|---|
| 10/26/2017 | 1 |

QUOTE NUMBER
QT57761

EXPIRE DATE
11/30/2017

**Quoted To**
Deputy John Schultz
FRAMINGHAM FIRE DEPT.
10 Loring Drive
FRAMINGHAM, MA 01702

**Ship To**
FRAMINGHAM FIRE DEPT.
10 Loring Drive
FRAMINGHAM, MA 01702

| CUSTOMER NO. | CONTRACT NO. | PHONE NO. | SALESPERSON | CUSTOMER PO. NO. |
|---|---|---|---|---|
| 3259 | FIR-04 | (508)532-5930 | Pete Cavalieri | |

| LINE NO. | ITEM NUMBER | DESCRIPTION | QTY ORDERED | UNIT PRICE | EXTENDED PRICE |
|---|---|---|---|---|---|
| 1 | HUR272085000 | EDRAULC2 S 700E2 CUTTER PACKAGE | 1 | 11,103.40 | 11,103.40 |
| 2 | HUR271555000 | EDRAULIC SP555E2 SPREADER PACKAGE | 1 | 12,397.00 | 12,397.00 |
| 3 | HUR274085000 | R421E2 RAM W/EXL BATTERY & CHARGER | 1 | 8,673.00 | 8,673.00 |
| 4 | HUR272080910 | EDRAULIC DC BANK CHARGER | 1 | 1,715.00 | 1,715.00 |
| 5 | HUR272085412 | EDRAULIC2 110V E2 POWER SUPPLY W/PLUG | 2 | 735.00 | 1,470.00 |

**Comments** PRICING IS COMPLIANT TO THE MASS. STATE CONTRACT FIR-04

**Amount** 35,358.40

**By:** Pete Cavalieri

**Quote Number:** **QU0000419100**
**Effective:** 19 OCT 2017
**Effective To:** 18 DEC 2017

**Bill-To:**
FRAMINGHAM FIRE DEPT
10 LORING DR
FRAMINGHAM, MA 01702
United States

**Ultimate Destination:**
FRAMINGHAM FIRE DEPT
10 LORING DR
FRAMINGHAM, MA 01702
United States

Attention:
**Name:** Michael Dutcher
**Phone:** 508 532 5930

Sales Contact:
**Name:** George Voorhees
**Email:** gvoor@bellatlantic.net
**Phone:** 5088811503

**Contract Number:** ITT57 MA STATE
**Freight terms:** FOB Destination
**Payment terms:** Net 45

| Item | Quantity | Nomenclature | Description | List price | Your price | Extended Price |
|---|---|---|---|---|---|---|
| 1 | 1 | M25SSS9PW1AN | APX6500 UHF R2 MID POWER | $4,094.00 | $3,142.88 | $3,142.88 |
| 1a | 1 | W22BA | ADD: STD PALM MICROPHONE APEX | | | |
| 1b | 1 | G442AJ | ADD: O5 CONTROL HEAD | | | |
| 1c | 1 | G67BC | ADD: REMOTE MOUNT MID POWER | | | |
| 1d | 1 | G24AX | INT: 3 YEAR SERVICE FROM THE START LITE | | | |
| 1e | 1 | G444AE | ADD: APX CONTROL HEAD SOFTWARE | - | - | - |
| 1f | 1 | G490AD | ADD: ANT 1/4 WAVE 470-512 MHZ | | | |
| 1g | 1 | B18CR | ADD: AUXILARY SPKR 7.5 WATT | | | |
| 1h | 1 | GA00235AA | ADD: NO GPS ANTENNA NEEDED | - | - | - |
| 1i | 1 | Q811BS | DIGITAL CONVENTIONAL | | | |
| 2 | 640 | SVC03SVC0124D | SUBSCRIBER INSTALL - CUST LOCATION | $1.00 | $1.00 | $640.00 |
| (Notes)Field Installation and programming | | | | | | |

**Total Quote in USD** $3,782.88

1. Terms subject to ITT57 as modified by the clarifications and terms/conditions. For a full list of terms/conditions please contact you Motorola representative.

2. PO Issued to Motorola Solutions Inc. must:

>Be a valid Purchase Order (PO)/Contract/Notice to Proceed on Company Letterhead. Note: Purchase Requisitions cannot be accepted
>Have a PO Number/Contract Number & Date
>Identify "Motorola Solutions Inc." as the Vendor
>Have Payment Terms or Contract Number
>Be issued in the Legal Entity's Name
>Include a Bill-To Address with a Contact Name and Phone Number
>Include a Ship-To Address with a Contact Name and Phone Number
>Include an Ultimate Address (only if different than the Ship-To)
>Be Greater than or Equal to the Value of the Order
>Be in a Non-Editable Format

>Identify Tax Exemption Status (where applicable)
>Include a Signature (as Required)

3. Quotes are exclusive of all installation and programming charges (unless expressly stated) and all applicable taxes.

4. Prices quoted are valid for thirty(30) days from the date of this quote.

5. Unless otherwise stated, payment will be due within forty five day of invoice. Invoicing will occur concurrently with shipping. MOTOROLA DISCLAIMS ALL OTHER WARRANTIES WITH RESPECT TO THE ORDERED PRODUCTS, EXPRESS OR IMPLIED INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. MOTOROLA'S TOTAL LIABILITY ARISING FROM THE ORDERED PRODUCTS WILL BE LIMITED TO THE PURCHASE PRICE OF THE PRODUCTS WITH RESPECT TO WHICH LOSSES OR DAMAGES ARE CLAIMED. IN NO EVENT WILL MOTOROLA BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

# FY2019 Request: Deferred to FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | FIRE/Fire/2019/B | **Budget Year:** | 2019 |
| **Project Title:** | Incident Command Vehicle - Deputy Chief Car2 - Fire Apparatus Asset Replacement | **Scenario:** | Main 2019 |
| **Asset Type:** | FIRE DEPT CARS | **Budget Status:** | Department Request |
| **Department:** | C7-220 - Fire | **Regions:** | |
| **Project Type:** | Public Safety Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | Jul 2, 2018 | **Project Partner:** | |
| **Est. Completion Date:** | Feb 28, 2019 | | |

## Description:

Purchase a new SUV for use by the on-duty Deputy Chief (Shift Supervisor) to be used for incident command. This vehicle is housed at Station 5 (Concord Street) and responds 24 hours-per-day to all significant fire and rescue incidents in Town. It contains a radio bank and a command station for use at large scale and long duration incidents. The purchase would include 2 radios in addition to the vehicle, and the emergency lighting and department identification decal package.

## Comments:

## Justification:

Car 2 is high use and high mileage, and is therefore on an accelerated replacement schedule. The current Car 2 would be repurposed within the Fire Department fleet and allow the removal of the highest maintenance - oldest SUV from the current fleet.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 54,036 | 0 | 54,036 |
| | **54,036** | **0** | **54,036** |

MHQ
VEHICLES ■ EQUIPMENT ■ GEAR

# BUDGET ESTIMATE

**Framingham, City of**

| | | | |
|---|---|---|---|
| Contact Name: | Ken Cassidy, Mechanic | Date: | October 12, 2017 |
| Company/Dept: | Fire Dept. | Valid until : | |
| Street Address: | 10 Loring Drive | Customer #: | 12020 |
| City, State, Zip: | Framingham, MA 01702 | Contract: | N/A |
| Phone: | 508.532.5945 (desk) | Sales Rep: | Shawn Daoust |
| E-Mail: | ksc@framinghamma.gov | | |

| CONTRACT LINE REFERENCE | LINE DESCRIPTION | UNIT PRICE | QTY. | EXTENDED PRICE |
|---|---|---|---|---|
| U1G | Ford Expedition 4x4 XL Trim (100a) | $ 34,300.00 | 1 | $ 34,300.00 |
| 102a | Downgrade to Four Wheel Drive SSV | $ (2,163.10) | 1 | $ (2,163.10) |
| 99T / 446 | 3.5L V6 Twin Turbo EcoBoost Gas Engine with Auto. Transmission | $ - | 1 | $ - |
| PQ | Exterior Color = Race Red | $ - | 1 | $ - |
| CH | Cloth Seats (1st row), Vinyl Seats (2nd row) | $ - | 1 | $ - |
| 186 | Factory Running Boards | $ 421.95 | 1 | $ 421.95 |
| 65C | SSV Upgrade Package (20" alloys & different rear axle) | $ 1,018.50 | 1 | $ 1,018.50 |
| 53M | SYNC (Factory Bluetooth) | $ 213.40 | 1 | $ 213.40 |
| 536 | Heavy Duty Trailer Tow Package | $ 543.20 | 1 | $ 543.20 |
| | 2018 MY Budget Increase - ESTIMATE) | $ 4,120.07 | 1 | $ 4,120.07 |
| | **GBPC-Ford Contract ESTIMATE** | | | **$ 38,454.02** |
| | | | | |
| | ** We expect updated/valid pricing on this contract within 7 business days ** | | | |
| | | | | |
| | | | | |
| | MHQ Graphics Pkg. "C" Premium (does not include a Chevron) | $ 695.00 | 1 | $ 695.00 |
| | VentVisor Window Vents (4 piece) | $ 75.00 | 1 | $ 75.00 |
| front | WeatherTech Floor Liners (per row) | $ 125.00 | 1 | $ 125.00 |
| | | | | $ - |
| red | Whelen ION LED Warning Lights (per pair) grille | $ 365.00 | 2 | $ 730.00 |
| red | Whelen ION "V1" LED Warning Lights in grille | $ 225.00 | 2 | $ 450.00 |
| % disc. | Whelen Wig-Wag Headlight Flasher | $ 46.15 | 1 | $ 46.15 |
| | Install Wig-Wag Headlight Flasher | $ 35.00 | 1 | $ 35.00 |
| 1 B, 1 A w/ "36" | Whelen Liberty II SOLO LED Lightbar w/CenCom Controller | $ 2,327.00 | 1 | $ 2,327.00 |
| | GTT LED Emitter (built into Lightbar) | $ 1,375.00 | 1 | $ 1,375.00 |
| red | Whelen IONs (per pair) in 1/4 glass window | $ 365.00 | 2 | $ 730.00 |
| b r r a | Whelen ION LED Warning Lights (per pair) top rear window | $ 365.00 | 2 | $ 730.00 |
| w/r | Whelen LED Hide-a-ways (2 pair) tail lights | $ 455.00 | 1 | $ 455.00 |
| behind grille | Whelen Siren Speaker | $ 200.00 | 1 | $ 200.00 |
| | Havis C2410 Communications Console | $ 450.00 | 1 | $ 450.00 |
| | Havis 12v DC Triple Outlet in Console | $ 60.00 | 1 | $ 60.00 |
| | Havis C-ARM-102 Side Mount Arm-rest(s) | $ 68.00 | 2 | $ 136.00 |
| | Havis Dual Internal Cup Holder | $ 45.00 | 1 | $ 45.00 |
| | Magnetic Mic. Clip(s) | $ 41.00 | 2 | $ 82.00 |
| | Havis ChargeGuard 12v Electronic Timer | $ 100.00 | 1 | $ 100.00 |
| w r w | SoundOff LED Dome Lights on hatch with 2 switches | $ 50.00 | 3 | $ 150.00 |

| | | | | | |
|---|---|---|---|---|---|
| | Install 2-way Radio(s) | $ 195.00 | 1 | $ | 195.00 |
| hourly | MHQ Labor - Remove/Dispose of OEM Roof Rack | $ 95.00 | 1 | $ | 95.00 |
| | Whelen M2RC LED Warning Lights (1/side) near headlight | $ 355.00 | 1 | $ | 355.00 |
| | | | | $ | - |
| | **GBPC-Aftermarket Equipment Contract Total :** | | | **$** | **8,016.15** |
| | | | **Per Veh.** | $ | 46,470.17 |
| | | | **Qty. :** | | 1.00 |
| | | | **Net Investment :** | **$** | **46,470.17** |

## TERMS AND CONDITIONS

*This quote is valid for 60 days from the date of quote. Any purchase orders or approved quotes received outside of the 60 day quote period may be subject to price adjustments. By signing this quote, the customer is agreeing to pay, in full, for all items listed above. Any requests for changes, modifications, replacements, removals or additional items may be subject to additional fees and/or adjusted delivery dates.

The terms and conditions stated herein and the provisions of any agreement between MHQ and Buyer, if applicable, shall constitute the complete and only terms and conditions applicable to any and all purchases by Buyer from MHQ. Any additional and/or different terms and/or conditions printed anywhere including on, or with, Buyer's order shall be inapplicable in regard to any purchase by Buyer from MHQ.

## ORDER ACKNOWLEDGEMENT

**By signing this document you are agreeing to the above terms and conditions of this order from MHQ, Inc.**

x

**PRINT NAME**

x

**TITLE**

x

**SIGNATURE**

x

**DATE**

Quote provided by Shawn Daoust, Account Manager at MHQ - Public Safety Team
(508) 573-2625 or sdaoust@mhq.com

**Quote Number:** **QU0000419100**
**Effective:** 19 OCT 2017
**Effective To:** 18 DEC 2017

**Bill-To:**
FRAMINGHAM FIRE DEPT
10 LORING DR
FRAMINGHAM, MA 01702
United States

**Ultimate Destination:**
FRAMINGHAM FIRE DEPT
10 LORING DR
FRAMINGHAM, MA 01702
United States

Attention:
**Name:** Michael Dutcher
**Phone:** 508 532 5930

Sales Contact:
**Name:** George Voorhees
**Email:** gvoor@bellatlantic.net
**Phone:** 5088811503

**Contract Number:** ITT57 MA STATE
**Freight terms:** FOB Destination
**Payment terms:** Net 45

| Item | Quantity | Nomenclature | Description | List price | Your price | Extended Price |
|---|---|---|---|---|---|---|
| 1 | 1 | M25SSS9PW1AN | APX6500 UHF R2 MID POWER | $4,094.00 | $3,142.88 | $3,142.88 |
| 1a | 1 | W22BA | ADD: STD PALM MICROPHONE APEX | | | |
| 1b | 1 | G442AJ | ADD: O5 CONTROL HEAD | | | |
| 1c | 1 | G67BC | ADD: REMOTE MOUNT MID POWER | | | |
| 1d | 1 | G24AX | INT: 3 YEAR SERVICE FROM THE START LITE | | | |
| 1e | 1 | G444AE | ADD: APX CONTROL HEAD SOFTWARE | - | - | - |
| 1f | 1 | G490AD | ADD: ANT 1/4 WAVE 470-512 MHZ | | | |
| 1g | 1 | B18CR | ADD: AUXILARY SPKR 7.5 WATT | | | |
| 1h | 1 | GA00235AA | ADD: NO GPS ANTENNA NEEDED | - | - | - |
| 1i | 1 | Q811BS | DIGITAL CONVENTIONAL | | | |
| 2 | 640 | SVC03SVC0124D | SUBSCRIBER INSTALL - CUST LOCATION | $1.00 | $1.00 | $640.00 |
| (Notes)Field Installation and programming | | | | | | |

**Total Quote in USD** $3,782.88

1. Terms subject to ITT57 as modified by the clarifications and terms/conditions. For a full list of terms/conditions please contact you Motorola representative.

2. PO Issued to Motorola Solutions Inc. must:

>Be a valid Purchase Order (PO)/Contract/Notice to Proceed on Company Letterhead. Note: Purchase Requisitions cannot be accepted
>Have a PO Number/Contract Number & Date
>Identify "Motorola Solutions Inc." as the Vendor
>Have Payment Terms or Contract Number
>Be issued in the Legal Entity's Name
>Include a Bill-To Address with a Contact Name and Phone Number
>Include a Ship-To Address with a Contact Name and Phone Number
>Include an Ultimate Address (only if different than the Ship-To)
>Be Greater than or Equal to the Value of the Order
>Be in a Non-Editable Format

>Identify Tax Exemption Status (where applicable)
>Include a Signature (as Required)

3. Quotes are exclusive of all installation and programming charges (unless expressly stated) and all applicable taxes.

4. Prices quoted are valid for thirty(30) days from the date of this quote.

5. Unless otherwise stated, payment will be due within forty five day of invoice. Invoicing will occur concurrently with shipping. MOTOROLA DISCLAIMS ALL OTHER WARRANTIES WITH RESPECT TO THE ORDERED PRODUCTS, EXPRESS OR IMPLIED INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. MOTOROLA'S TOTAL LIABILITY ARISING FROM THE ORDERED PRODUCTS WILL BE LIMITED TO THE PURCHASE PRICE OF THE PRODUCTS WITH RESPECT TO WHICH LOSSES OR DAMAGES ARE CLAIMED. IN NO EVENT WILL MOTOROLA BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

# FY2019 Requested: Deferred to FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Highway/2019/I | **Budget Year:** | 2019 |
| **Project Title:** | Culverts Inventory and Assessment | **Scenario:** | Main 2019 |
| **Asset Type:** | STORM DRAIN | **Budget Status:** | Department Request |
| **Department:** | C4-411 - Engineering | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

A complete and accurate inventory, and the documentation and understanding of the condition and performance of culverts will be prepared, which are key stormwater assets for many roadways and neighborhoods across Framingham.

## Comments:

In addition to being a critical component of roads, the inventory fieldwork and documentation of this small subset of stormwater assets can help establish standards for the collection of data for other of these assets, and better position Framingham for the long anticipated update to the MS4 permit.

## Justification:

Very few culverts (and other stormwater assets) have been addressed in Framingham, far less than for other infrastructure in the last couple decades. Culverts play a very important role in the conveyance and containment of floodwaters, and the connectivity and preservation of natural resources and biodiversity. The Town owns approximately 200 culverts from 20 to 100 years old, with most installed prior to current regulations for flooding reduction and stream crossings. As with other aging infrastructure, deterioration of culverts continues, with repairs, rehabilitation or replacement likely to soon become critical for an unknown number of them and the related road(s).

To know what's required, DPW needs information to forecast remaining service life, and a plan to address any deficiencies found, including integration with the related roadway needs. That includes an assessment of potential failures and the effects on traffic, public safety, property damage, flood fighting, emergency construction and others. This will assist in prioritizing capital investments, as well as qualifying and positioning for funding from agencies such as FEMA, MassDOT, and DCR who have annually provided funding opportunities for culvert enhancements.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 175,000 | 0 | 175,000 |
| | **175,000** | **0** | **175,000** |

November 5, 2017

Ref: 13484.19

Eric V. Johnson, P.E.
Town Engineer
Framingham Dept of Public Works
110 Western Avenue
Framingham, MA 01702

Re: FY-2019 Capital Improvements
Culvert Inventory & Assessment

Dear Mr. Johnson,

The Town of Framingham owns approximately 190 culverts that range in age from 20 to 100 years old. Most culverts in Town were built previous to and do not meet current FEMA regulations for flood mitigation or state stream crossing standards. VHB has prepared this letter to provide a description and cost estimate for the inventory and assessment of the Town's existing culverts.

The DPW is in need of an evaluation of the condition and performance of existing culverts, a means to forecast their remaining service life, and a plan to address any deficiencies found. A proactive assessment of culverts will help the Town extend the service life of these culverts and prevent potential failures, which potentially have significant impacts on traffic, public safety, and property damage. An updated culvert inventory and assessment will assist the Town with prioritizing capital investment in improvements.

The total costs associated with the culvert inventory and assessment of the Town's existing culverts is estimated to be $175,000.00.

If you have any questions, or require additional information, please do not hesitate to contact me.

Sincerely,

Vanasse Hangen Brustlin, Inc.

Tracie Lenhardt

Tracie Lenhardt, P.E.

Senior Project Manager

Engineers | Scientists | Planners | Designers

101 Walnut Street
PO Box 9151
Watertown, Massachusetts 02471
P 617.924.1770
F 617.924.2286

# FY2019 Requested: Deferred to FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | PARK/ParkRec/2019/B | **Budget Year:** | 2019 |
| **Project Title:** | F450 4x4 Crew Cab Dump Truck 16,000 GVW | **Scenario:** | Main 2019 |
| **Asset Type:** | | **Budget Status:** | Department Request |
| **Department:** | C7-650 - Parks & Recreation | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2010 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

These funds will be used to purchase a F450 4x4 Crew Cab Dump Truck to replace a 2007 Ford F450 Regular Cab Dump Truck with 84,999 miles, equating to 127,499 engine miles.

## Comments:

## Justification:

The Parks Maintenance Department has a limited amount of vehicles within its fleet to support the operational demands. This vehicle, listed within our fleet as Truck 12, is a F450 Regular Cab Dump Truck used to transport staff and equipment on a daily basis with additional tool storage capacities (two large tool boxes attached to truck). Due to its current condition and limited operating capacity, this vehicle is not able to be utilized to its full potential. As a result, Truck 12 has been relegated to minimal daily usage.

The vehicle has sustained major rust damage to its truck bed that is costly or beyond repair. During the winter months, Truck 12 has been used in snow removal/treatment operations. As part of this, Truck 12 carries a bed-mounted sander during these months to treat Town properties. As a result of operating in support of snow removal efforts during the past 10 years, this vehicle has sustained significant salt erosion to its frame and bed mounts. Recently, this damage has resulted in multiple holes within the trucks frame and body, rendering Truck 12 incapable of continuing in this capacity.

In addition to these deficiencies, Truck 12 will also require the following repairs to remain in operation:

- Replacement of both sets of rear springs;
- Replacement of ball joints;
- Replacement of shifter cable and assembly;
- Replacement of shocks;
- Replacement of rotted break lines;
- Replacement of tie-rod ends.

After 10 years of operational service, the overall physical and mechanical condition of Truck 12 is significantly degraded, requiring replacement.

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 72,531 | 0 | 72,531 |
| | **72,531** | **0** | **72,531** |

| 2018 F450 4x4 Crew Cab Dump | |
|---|---|
| Estimate from MHQ, October 2017 | $65,938.00 |
| **Sub Total** | |
| 10% Estimated Cost Escalation for FY19 Contract | $6,593.80 |
| **Total** | **$72,531.80** |

Price per quote Greg Keith at MHQ
* Price Escalation due to anticipated 2018 contract

# Framingham
# Parks and Recreation Department

**475 Union Avenue · 508 532 5960**

## Memorandum

**From the desk of Donald Capen**

November 4, 2017

**RE: Capital Budget Vehicle Replacement – 2007 Ford F450 Regular Cab Dump Truck**

Chris,

As requested, the following is a description of the current issues with the 2007 Ford F450 4x4 Regular Cab Dump Truck. Currently, this vehicle has 84,999 miles on the odometer.

Due to the age of this vehicle and current condition, it is utilized minimally on a daily basis. Current issues requiring attention, labor and expense are:

- Replacement of both sets of rear springs;
- Replacement of ball joints;
- Replacement of shifter cable and assembly;
- Replacement of shocks;
- Replacement of rotted break lines;
- Replacement of tie-rod ends.

During the winter months, Truck 12 has been used in snow removal/treatment operations. As part of this, Truck 12 carries a bed-mounted sander during these months to treat Town properties. As a result of operating in support of snow removal efforts during the past 10 years, this vehicle has sustained significant salt erosion to its frame and bed mounts. Recently, this damage has resulted in multiple holes within the trucks frame and body, rendering Truck 12 incapable of continuing in this capacity.

After 10 years of operational service, the overall physical and mechanical condition of the vehicle is significantly degraded. Based on an overall assessment of the vehicle, I believe it has reached its useful life expectancy and would recommend replacement.

Regards,

Donald Capen
Mechanic

PARKS
TOWN OF FRAMINGHAM, MA
& RECREATION

MHQ
VEHICLES ■ EQUIPMENT ■ GEAR

# QUOTE

## CUSTOMER

| | | | |
|---|---|---|---|
| Contact Name: | Town of Framingham | Date: | 10/31/2017 |
| Company/Dept | Parks Department | Valid for: | 60 Days* |
| Street Address: | 475 Union Ave | Customer #: | 10142 |
| City, State, Zip: | Framingham, MA 01702 | Contract: | GBPC/BAPERN 2015 |
| Phone: | 508-532-5960 | Sales Rep: | GAK |
| E-Mail: | cam@framinghamma.gov | | |

| CONTRACT LINE REFERENCE | LINE DESCRIPTION | UNIT PRICE | QTY. | EXTENDED PRICE |
|---|---|---|---|---|
| | | | | $0.00 |
| W4H | 2018 F450 Chassis 4X4 Crew Cab 145"WB, 60"CA, 16,000 GVWR | $38,300.00 | 1 | $38,300.00 |
| | SVO Color: Green Gem | $623.00 | 1 | $623.00 |
| 99T | 6.7 Liter Power Stroke diesel engine | $8,618.00 | 1 | $8,618.00 |
| | 4:10 Limited slip axle | $349.00 | 1 | $349.00 |
| TGB | 225/70RX19.5 BSW Traction Tires, Front & Rear | $208.00 | 1 | $208.00 |
| 473 | Snowplow prep package | $179.00 | 1 | $179.00 |
| 41H | Engine block heater | $87.00 | 1 | $87.00 |
| 62R | Transmission PTO provision | $271.00 | 1 | $271.00 |
| 98R | Operator commanded diesel regeneration | $242.00 | 1 | $242.00 |
| 213 | Electronic shift on the fly four wheel drive | $179.00 | 1 | $179.00 |
| 52B | Trailer brake controller | $261.00 | 1 | $261.00 |
| 18B | Black Molded Running Boards, Crew Cab | $431.00 | 1 | $431.00 |
| | 6-Speed Automatic Transmission | included | | |
| | HD vinyl bench seat, HD vinyl flooring, Air conditioning and spare tire | included | | |
| | AM/FM radio with digital clock & four upfitter switches | included | | |
| 1.09 | Whelen Super LED D.O.T. (3) light warning system , model DOT3702A | $1,745.00 | 1 | $1,745.00 |
| 3.09 | Whelen (2) LED Vertex hideaway system, model # VTX609-2 | $235.00 | 1 | $235.00 |
| 4.03 | Transmission PTO driven central hydraulic system | $4,395.00 | 1 | $4,395.00 |
| 5.01 | 2 to 3 cubic yard dump body w/ class-30 hoist | $8,695.00 | 1 | $8,695.00 |
| 5.42 | Manually retracted asphalt canvas all | $450.00 | 1 | $450.00 |
| 7.07 | Reinforced plate mounted ball and pintle hook combo | $495.00 | 1 | $495.00 |
| 7.05 | Trailer plug, wired | $175.00 | 1 | $175.00 |
| 8.08 | Motorola CDM1250, 64 channel, Alpha display, 45 Watt, VHF High Band front mount radio frequency range136-174 MHz model # AAM25KKD9AA2 | | 1 | |
| | | | | |
| | | | TAX: | |
| | | | TOTAL: | $65,938.00 |

### TERMS AND CONDITIONS

*This quote is valid for 60 days from the date of quote. Any purchase orders or approved quotes received outside of the 60 day quote period will be subject to price adjustments. By signing this quote, the customer is agreeing to pay, in full, for all items listed above. Any requests for changes, modifications, replacements, removals or additional items may be subject to additional fees and/or adjusted delivery dates.

M.G.L c. 30B applies to the procurement of all commodities quoted. Contract items have been collectively purchased pursuant to M.G.L c 30B sec 1c and M.G.L c.7 sec 22B. The government body is responsible to determine the applicibility of M.G.L. c30B to off contract items, but not limited to, off contract items that have already been properly procured under M.G.L. c30B sec 1c and M.G.L. c7 sec 22A (purchases from a vendor on contract with the Commonwealth), other contracts procured under M.G.L. c30B sec 1c and M.G.L. c. 30B contract between the vendor and the jurisdiction. All off contract items must be proccured under M.G.L. c. 30B.

The terms and conditions stated herein and the provisions of any agreement between MHQ and Buyer, if applicable, shall constitute the complete and only terms and conditions applicable to any and all purchases by Buyer from MHQ. Any additional and/or different terms and/or conditions printed anywhere including on, or with, Buyer's order shall be inapplicable in regard to any purchase by Buyer from MHQ.

### ORDER ACKNOWLEDGEMENT

By signing this document you are agreeing to the above terms and conditions of this order from MHQ, Inc.

x

PRINT NAME

x

TITLE

x

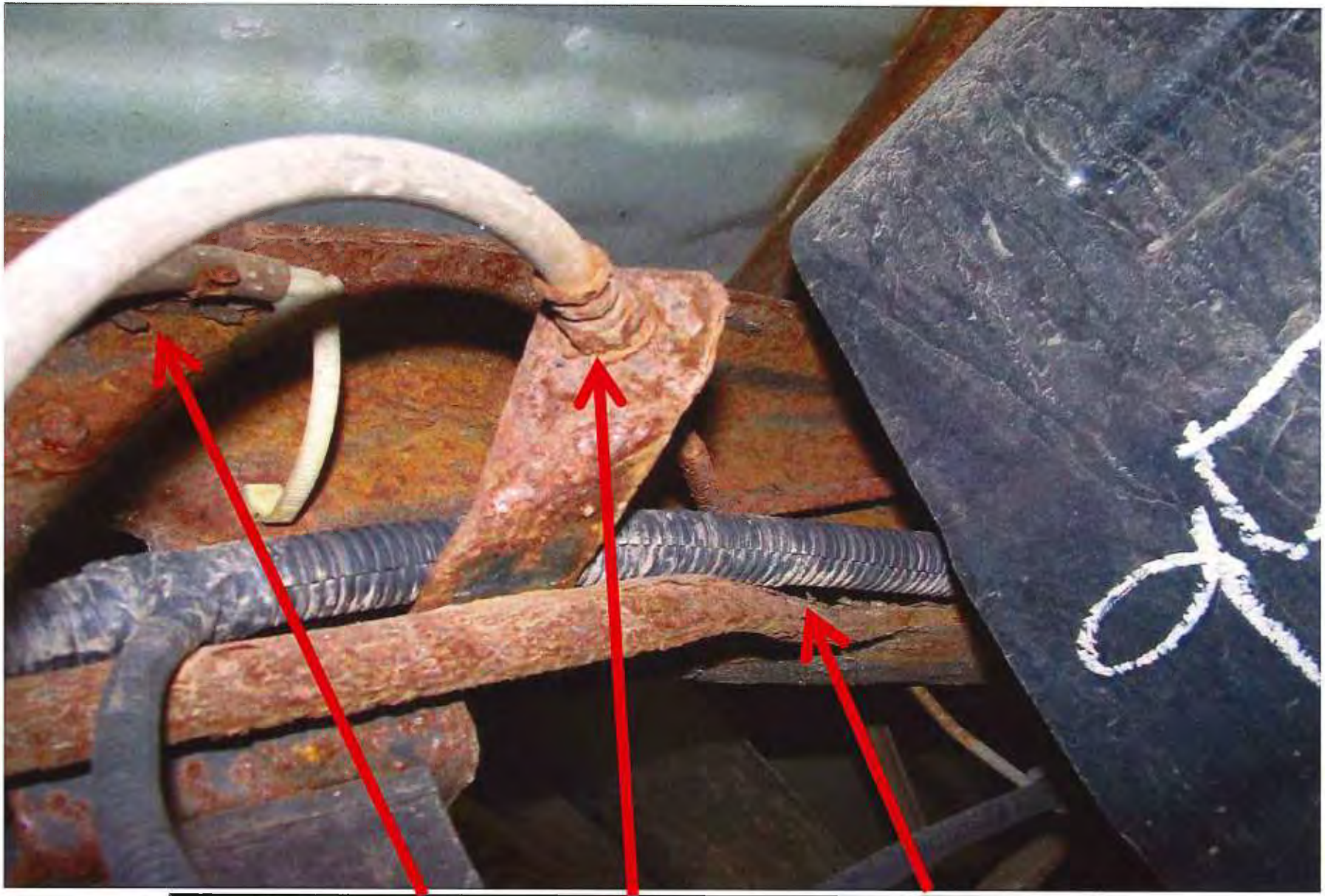
SIGNATURE

Quote provided by Greg Keith, Key Accounts Manager at MHQ
(508) 954-2225 or gkeith@mhq.com

# 2007 F450 Regular Cab Dump Truck

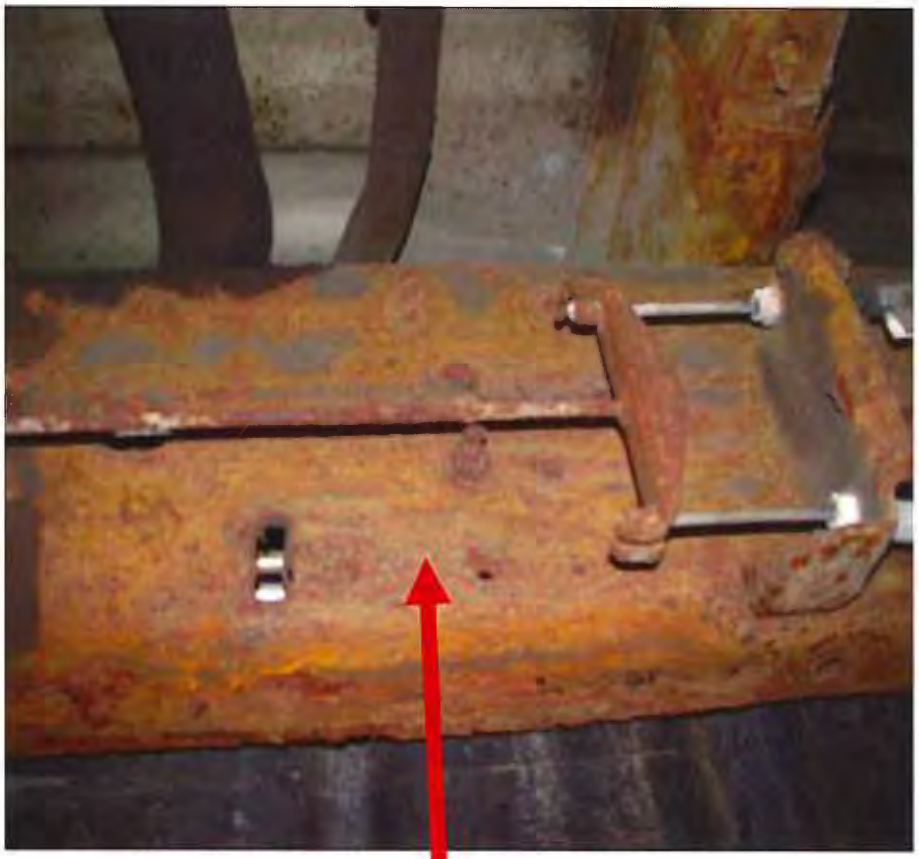
Choose FRAMINGHAM

Rust and perforation of truck body that is beyond repair. Vehicle is unable to transport loads due to the damage.



Rotting break lines requiring full replacement

Rust and perforated bed mounts leading to load instability



Corrosion of emergency break line require replacement

Age, rust and damage to ball joint and wheel seal, requiring replacements

# FY2019 Requested: Deferred to FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | FPS/B&G/2019/G | **Budget Year:** | 2019 |
| **Project Title:** | ADA Upgrades for Compliance (Various Schools as needed) | **Scenario:** | Main 2019 |
| **Asset Type:** | | **Budget Status:** | Department Request |
| **Department:** | C3-971 - Building & Grounds Department | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

Upgrades to Curbs, Sidewalks, Handicap Ramps/Lifts, Railings, Bathroom Partitions, Hardware, Signage and Removal of all Architectural Barriers and Design for Compliance

- Partitions
- Hardware
- Signage
- Bathrooms
- Knobs
- Door Handles
- Design for Compliance

## Justification:

Each year we address architectural barriers that exist at multiple school buildings and sites Although we have performed many upgrades over the past twelve years, there continues to be items such as door & room signs, door handles, toilet partitions and walk ways that need to be upgraded so they are compliant. Areas such as school courtyards require ramps; toilet rooms require proper clearance to provide proper access in some of them.

As in the past, the Town Unit Pricing Contracts will be utilized for sidewalk repairs at multiple schools.
FY20:
$150,000

FY21 - FY25:

Continue with ADA upgrades at various schools.
$ 200,000 each year

Please note that ADA site upgrades must be completed during the months of July and August when students are not in the schools. Requested amounts reflect the amount of construction work that can be completed in this short time frame.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 300,000 | 0 | 300,000 |
| | **300,000** | **0** | **300,000** |

# FY2019 Recommended: Deferred to FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | FPS/B&G/2019/I | **Budget Year:** | 2019 |
| **Project Title:** | Mechanical, Electrical, Plumbing Upgrades - All Schools - Multiple Systems - Phased Project-FY19 | **Scenario:** | Main 2019 |
| **Asset Type:** | | **Budget Status:** | Department Request |
| **Department:** | C3-971 - Building & Grounds Department | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | Jul 1, 2018 | **Project Partner:** | |
| **Est. Completion Date:** | Jun 30, 2019 | | |

**Description:**

Mechanical, electrical and plumbing upgrades in all schools in order to properly maintain buildings.

**Comments:**

**Justification:**

To properly maintain school buildings so they are safe, efficient and sound, mechanical, electrical and plumbing upgrades on multiple systems need to be performed. All schools will require upgrades in the near future. Below is a prioritized list of pumps, drives, motors, lighting, burners and appurtenances.

**Description:**

**Comments:**

**Project Forecast**

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 100,000 | 0 | 100,000 |
| | **100,000** | **0** | **100,000** |

# Mechanical and Electrical Systems Conceptual Design Narrative

# For

**Framingham High School**
115 A Street
Framingham, MA

October 5, 2017

Prepared by:

Consulting Engineering Services, LLC

128 Carnegie Row Suite 204, Norwood, Massachusetts, 02062

CES PN 2017035.00

# Scope of Work

## I. EXECUTIVE SUMMARY

The following narrative describes the mechanical and electrical systems associated with the addition of two air cooled chillers at the Framingham High School in Framingham, MA.

## II. APPLICABLE CODES AND STANDARDS

The mechanical and electrical systems will be provided in conformance with the requirements of the following codes and regulations and all applicable local authority requirements.

A. 2016 Massachusetts State Building Code

B. 2016 Massachusetts State Fire Safety Code

C. 2009 International Mechanical Code

D. 2015 International Energy Conservation Code

E. NFPA, All applicable code sections, Latest Version

F. ASHRAE 90.1-2013

G. ASHRAE 62.1

H. 2014 National Electric Code

## III. MECHANICAL SYSTEMS

## IV. Cooling Plant

1. There will be the addition of two high efficiency air cooled chillers on the existing roof. Each chiller will have a nominal capacity of 300 Tons and two compressors. Each chiller shall be provided with an oversized condenser coil to provide high efficiency. Each chiller shall be sized for nominal 10°F delta T (44°F supply and 54°F return temperatures) for energy efficiency.

2. The new chillers will connect to existing capped chilled water piping located in the "Basement J Wing Boiler Room". New chilled water piping will extend from the "Basement J Wing Boiler Room" to the two new chillers to be located on the roof of Wing J.

3. The existing system is a dual temperature change over system from hot water to chilled water. Existing pumps located in the "Basement J Wing Boiler Room" will be utilized for chilled water distribution.

4. Chilled water system shall operate with 30% propylene glycol/water solution.

5. Steel Dunnage will be needed to support the installation of the two new chillers.

6. Drain and refill system with 30% propylene glycol/water solution.

Materials and Methods for HVAC Systems Shall Include:

1. All motors 2 HP and larger shall be high efficiency and provided with VFD.

2. Provide glass fiber insulation for all hydronic piping aluminum jacket on exterior piping. Insulation thicknesses shall exceed "energy code" as listed above.

3. Provide firestopping around mechanical penetrations in accordance with fire stopping requirements. System shall be capable of maintaining against flame and gases. System shall be UL listed and comply with ASTM E814.

4. Provide mechanical identification for mechanical systems. Identification shall comply with ANSI A13.1.

5. All pipe connections shall be installed to allow for freedom of movement of the piping during expansion and contraction without springing. Swing joints, expansion loops and expansion joints with proper anchors and guides shall be provided where shown.

6. Provide vibration isolation for hydronic piping and equipment.

7. Piping 2-1/2" and over shall be ASTM A 53; Schedule 40 black steel pipe.

8. All equipment served by hydronic piping shall have isolation valves on the supply and return lines. Isolation valves shall also be provided at branch take-offs.

9. Testing, Adjusting and Balancing: TAB shall be performed for all water systems in accordance with Associated Air Balance Council (AABC) and Natural Environmental Balancing Bureau (NEBB).

10. Chemical water treatment system with one year maintenance agreement shall be provided for hydronic loops.

**HVAC Controls – Central Building Management System (BMS)**

1. Two New Chillers shall connect to existing Building Management System (BMS).

**Commissioning**

1. Provide commissioning of primary chilled water system including, but not limited to, the new chillers, the existing primary chilled water pumps and the heating and cooling change over valves.

2. Provide commissioning of isolation valves serving heating only equipment (i.e. cabinet unit heaters, etc.)

# V. ELECTRICAL SYSTEMS

## VI. Electric Service Evaluation

1. The corresponding wing of the high school building is currently served with a 480/277 volt, 3 phase, 4 wire electric service rated for 3000 amperes. The service entrance and main distribution equipment consists of a Siemens switchboard with a combined main circuit breaker and utility metering section combined with two branch circuit breaker distribution sections. The distribution sections contains space provision for (2) large frame 800 ampere circuit breakers in each.

2. Upon review of the available electric utility demand information it has been determined that the existing service experienced a high value of 310.0 kW during the month of July 2016. The NEC allows the usage of this number taken at 125% to represent the existing connected load. This number can also be utilized to determine the spare capacity of the existing service. Taking 290.0 kW at .95 power factor equates to 368.0 amperes; this value at 125% equals 459.0 amperes, therefore the spare capacity of the existing service equals 2,541.0 amperes.

3. The new load representing the addition of the proposed HVAC equipment equals 950.0 kW, or approximately 1,142.0 amperes. This value is substantially less than the 2,541.0 amperes previously determined as the spare capacity therefore it will acceptable to add the new equipment load to the existing service.

## VII. Electrical Distribution

1. To support the proposed HVAC Chiller equipment (2) new 480 volt 3 phase, 3 wire feeders rated for 800 amperes each shall be extended from the existing switchboard MSB2 distribution sections in the basement level to the proposed chiller equipment location on the roof. To provide this requirement the following will be provided:

    a. Two 800 ampere 3 pole solid state circuit breakers shall be provided and installed within the available space of each distribution section. It should be noted that only one device will be installed in each section to distribute the new load between the two sections. The circuit breakers shall be Siemens Type KMHD with LSI solid state programmer.

    b. Two feeders shall be required to dedicate individual electric feeds to each chiller. Each feeder shall consist of (2) sets of 3#500 kcmil& #1/0 ground in each. The feeders shall be pathed parallel to new piping. Conduit inside the building shall be EMT conduit. Exterior conduit shall be EMT with compression fittings.

2. Branch circuits shall be installed in EMT conduit. EMT conduit shall be used to the first device in a branch circuit and shall be used in all masonry or CMU partitions. Type MC cable shall be allowed but limited to concealed spaces above finished ceilings or in drywall type partitions after EMT connection has been provided to the first piece of equipment or device. The following provisions shall be included:

    a) Circuits for all HVAC equipment as required. 208 volt wiring to control panels, control transformers, etc shall be provided by the electrician while low voltage control wire shall be provided under Division 23.

b) Maintenance GFCI and weatherproof outlets located on the roof within 25ft of HVAC rooftop equipment.

## VIII. Materials and Methods

1. Include the following basic materials and methods of construction:

   a) Wiring will be THHN/THWN copper, installed in EMT conduit to first device or exposed and MC cable for and remainder of circuit, and concealed work.

   b) Receptacles shall be specification grade, NEMA 5-20R etc.

   c) Disconnect switches will be fusible heavy-duty type. NEMA 1 or 3R as required for the installation location.

   d) Circuit breakers will be fixed element, thermal magnetic type.

   e) Branch circuit breakers shall be bus mounted with factory provided hardware strap kits.

   f) Branch circuit breakers shall be provided that conform to the existing short circuit current ratings and design of the existing electrical distribution.

   g) All conduits, circuits and devices will be labeled.

   h) Conduits above roof or located in exterior conditions shall be EMT with compression fittings. Flexible conduit connections to equipment shall be weatherproof flexible metal conduit.

## IX. Cost Estimate

a) Chiller equipment only shall be approximately $145,000 each for a total of $290,000. With labor, piping and installation the total will be $497,258.

b) Electrical equipment as outlined above for (2) 800 feeders, (2) switchboard circuit breakers, roof penetrations, fusible disconnects and maintenance receptacles at each chiller unit, branch wiring to each chiller controller shall be approximately $185,100.

c) Grand total (mechanical plus electrical etc.) of $874,283.

Framingham High School Chiller Addition MEP Cost Estimate

| 8" Chilled Water piping | Horizontal | Vertical | Total(4 pipes total) | Total (per lin ft or quantity) | Total |
|---|---|---|---|---|---|
| Basement | 10 | 10 | 80 | | |
| Lower Boiler Rm | 55 | 10 | 258 | | |
| First | | 10 | 40 | | |
| Roof | 120 | | 480 | | |
| | | Total length | 858 | 125 | $ 106,821 |
| Fittings | | | | | |
| 90 degree elbow | | | 10 | 446 | $ 4,460 |
| Valves(pg 263) | | | 4 | 3710 | $ 14,840 |
| Temp guage (p275) | | | 2 | 175 | $ 350 |
| pressure guage(p 274) | | | 2 | 356 | $ 712 |
| Chiller( material only) | | | 2 | 145000 | $ 290,000 |
| Chiller labor install(p 385) | | | 2 | 9475 | $ 18,950 |
| Testing and balancing(p 267) | | | | | $ 4,500 |
| Steel Dunnage | | | | | $ 15,000 |
| Hoisting (truck mounted lattice boom truck rental one day p621) | | | 1 | 1625 | $ 1,625 |
| Drain and refill glycol system | | | | | $ 40,000 |
| Electrical | | | Qty or Lin Ft | Cost per unit | |
| Switchboard Circuit Breakers, installed Qty | | | 2 | 16000 | $ 32,000 |
| Feeders - 800 ampere - Lin ft of (2) 4"C, 3#500 kcmil +G | | | 760 | 190 | $ 144,400 |
| Receptacles WP, GFI | | | 2 | 350 | $ 700 |
| Sleeving, Coring, Sealing for Conduits | | | 16 | 500 | $ 8,000 |
| Mechanical Subtotal | | | | | $ 497,258 |
| Electrical Subtotal | | | | | $ 185,100 |
| shop drawings | | | | | $ 3,000 |
| Permitting | | | $15/$1000 | | $ 12,439.25 |
| Commissioning | | | @1% total | | $ 8,293 |
| General Conditions | | | @4% of estimate | | $ 30,156 |
| Existing Conditions | | | @0.75% of estimate | | $ 5,654 |
| Total +10% Estimate Contingency | | | | | $ 753,894 |
| Total +10% Construction Contingency | | | | | $ 829,283 |
| Design (soft costs) | | | | | $ 45,000 |
| Grand Total | | | | | $ 874,283 |

# Mechanical and Electrical Systems Conceptual Design Narrative

# For

**Miriam F. McCarthy Elementary School**
8 Flagg Drive
Framingham, MA

October 5, 2017

Prepared by:

Consulting Engineering Services, LLC

128 Carnegie Row Suite 204, Norwood, Massachusetts, 02062

CES PN 2017036.00

# Scope of Work

## I. EXECUTIVE SUMMARY

Consulting Engineering Services has been retained by the Town of Framingham to provide a schematic design for the mechanical and electrical systems for the addition of Air Conditioning to the Miriam F. McCarthy Elementary School in Framingham, MA. The existing building is located at 8 Flagg Drive; the existing classrooms in the building are approximately 34,500 $ft^2$. This study includes recommendations for adding cooling at the classrooms only and electrical design to support the cooling addition.

## II. APPLICABLE CODES AND STANDARDS

The mechanical and electrical systems will be provided in conformance with the requirements of the following codes and regulations and all applicable local authority requirements.

A. 2016 Massachusetts State Building Code

B. 2016 Massachusetts State Fire Safety Code

C. 2009 International Mechanical Code

D. 2015 International Energy Conservation Code

E. NFPA, All applicable code sections, Latest Version

F. ASHRAE 90.1-2013

G. ASHRAE 62.1

H. 2014 National Electric Code

## III. MECHANICAL SYSTEMS:

## IV. Cooling Plant

Variable Refrigerant Volume

1. The cooling plant for space cooling will consist of a Variable Refrigerant Flow (VRF) system. The ventilation air will be via the existing unit ventilators in each classroom.

2. Class wing first floor area A will be provided with approximately 20 Tons of air cooled roof mounted VRF heat pump condensing units. The condensing unit will consist of a two condensing units twinned together. The indoor and outdoor units will be connected via refrigerant piping.

3. Class wing first floor area B will be provided with approximately 20 Tons of air cooled roof mounted VRF heat pump condensing units. The condensing unit will consist of a two condensing units twinned together. The indoor and outdoor units will be connected via refrigerant piping.

4. Class wing Second floor area A will be provided with approximately 20 Tons of air cooled roof mounted VRF heat pump condensing units. The condensing unit will consist of a two

condensing units twinned together. The indoor and outdoor units will be connected via refrigerant piping.

5. Class wing Second floor area B will be provided with approximately 20 Tons of air cooled roof mounted VRF heat pump condensing units. The condensing unit will consist of a two condensing units twinned together. The indoor and outdoor units will be connected via refrigerant piping.

6. Existing addition first floor will be provided with approximately 24 Tons of air cooled roof mounted VRF heat pump condensing units. The condensing unit will consist of a two condensing units twinned together. The indoor and outdoor units will be connected via refrigerant piping.

7. Addition Second floor area will be provided with approximately 20 Tons of air cooled roof mounted VRF heat pump condensing units. The condensing unit will consist of a two condensing units twinned together. The indoor and outdoor units will be connected via refrigerant piping.

8. Addition First floor area will be provided with approximately 18 Tons of air cooled roof mounted VRF heat pump condensing units. The condensing unit will consist of a two condensing units twinned together. The indoor and outdoor units will be connected via refrigerant piping.

9. The individual classroom spaces will all be served by multiple 2'x2' cassette type variable refrigerant flow (VRF) air handlers. The VRF air handlers will be heating and cooling units capable of heat recovery. VRF air handlers shall be fed by branch selector boxes, each box shall serve multiple air handlers and be connected to one of the rooftop heat pump units. There will be approximately 130 indoor VRF air handlers, 7 branch selector boxes, 33 Thermostats. There will be approximately seventy 1.25 Ton, fifty nine 1.0 Ton, and one 0.75 Ton 2'x2' cassette type units.

## V. General Mechanical

1. Connect to existing Building Management System (BMS) installed at the building.
    a) The BMS shall integrate to the VRF system controls and shall control the indoor VRF unit mode and setpoint. This will require a BACnet controller and expansion controller.

## VI. Materials and Methods:

a) All motors provided shall be high efficiency or better.

b) Provide all HVAC equipment with extra set of filters.

c) Seismic restraints shall be installed as required per the State of Massachusetts Building Code. This includes piping and equipment. The contractor shall engage a qualified structural engineer to design the seismic restraint systems.

d) Provide flexible elastomeric insulation on all refrigerant piping with aluminum jacket on exterior piping. Insulation shall be installed to meet the Energy Code.

e) Provide firestopping around mechanical penetrations in accordance with fire stopping requirements. System shall be capable of maintaining against flame and gases. System shall be UL listed and comply with ASTM E814.

f) Provide mechanical identification for mechanical systems. Identification shall comply with ANSI A13.1.

g) All pipe connections shall be installed to allow for freedom of movement of the piping during expansion and contraction without springing. Swing joints, expansion loops and expansion joints with proper anchors and guides shall be provided by the Contractor where necessary.

h) Provide vibration isolation for piping and equipment.

i) Refrigerant piping shall be ASTM B280 (ACR) copper tubing with brazed joints.

j) The contractor shall provide testing, adjusting and balancing (TAB) services for the HVAC systems.

## VII. ELECTRICAL SYSTEMS

## VIII. Electric Service Evaluation

1. The building is currently served with a 480/277 volt, 3 phase, 4 wire electric service rated for 1600 amperes. The service entrance and main distribution equipment consists of a Square D Company QED2 style switchboard with a combined main circuit breaker and utility metering section combined with a single branch circuit breaker distribution section. The distribution section contains space provisions to install approximately (9) 225 ampere frame circuit breakers.

2. Upon review of the available electric utility demand information it has been determined that the existing service experienced a high value of 226.0 kW during the month of July 2016. The NEC allows the usage of this number taken at 125% to represent the existing connected load. This number can also be utilized to determine the spare capacity of the existing service. Taking 226.0 kW at .95 power factor equates to 286.0 amperes; this value at 125% equals 358.0 amperes, therefore the spare capacity of the existing service equals 1,242.0 amperes.

3. The new load representing the addition of the proposed HVAC equipment equals 258.0 kW, or approximately 310.0 amperes. This value is substantially less than the 1,242.0 amperes previously determined therefore it will acceptable to add the new equipment load to the existing service.

## IX. Electrical Distribution

1. To support the proposed HVAC equipment load (2) new 480/277 volt 3 phase, 4 wire panels rated for 225 amperes shall be provided within Mechanical Room 201 or Electric Closet 204.

The panels shall be designated PHM4 and PHM5. The feeders for the new panels will require (2) new 225 ampere KH frame circuit breakers to be installed within the available space of the existing service switchboard. Two feeders consisting of 2-1/2" conduit with 4#4/0 &#4 ground will be run from the switchboard location in the basement up to either of the two second floor designated areas noted above.

2. Multiple power branch circuits at 480 volt – 3 phase shall be extended from the two new panels to feed new rooftop condensing units as follows:

    a. Panel PHM4 shall feed the Class wing first floor area A unit that is 20 ton with a 60 ampere circuit breaker, 1-1/4" conduit, 3#6 & #10 ground. The feed shall be extended to (2) 60 ampere fusible disconnect switches located at the paired unit. The switches shall be provided with 25 ampere fuses.

    b. Panel PHM4 shall feed the Class wing first floor area B unit that is 20 ton with a 60 ampere circuit breaker, 1-1/4" conduit, 3#6 & #10 ground. The feed shall be extended to (2) 60 ampere fusible disconnect switches located at the paired unit. The switches shall be provided with 25 ampere fuses.

    c. Panel PHM4 shall feed the Class wing second floor area A unit that is 20 ton with a 60 ampere circuit breaker, 1-1/4" conduit, 3#6 & #10 ground. The feed shall be extended to (2) 60 ampere fusible disconnect switches located at the paired unit. The switches shall be provided with 25 ampere fuses.

    d. Panel PHM4 shall feed the Class wing second floor area B unit that is 20 ton with a 60 ampere circuit breaker, 1-1/4" conduit, 3#6 & #10 ground. The feed shall be extended to (2) 60 ampere fusible disconnect switches located at the paired unit. The switches shall be provided with 25 ampere fuses.

    e. Panel PHM5 shall feed the Addition Area unit that is 24 ton with an 80 ampere circuit breaker, 1-1/4" conduit, 3#4 & #10 ground. The feed shall be extended to (2) 100 ampere fusible disconnect switches located at the paired unit. The switches shall be provided with 30 ampere fuses.

    f. Panel PHM5 shall feed the Addition Area unit that is 20 ton with a 60 ampere circuit breaker, 1-1/4" conduit, 3#6 & #10 ground. The feed shall be extended to (2) 60 ampere fusible disconnect switches located at the paired unit. The switches shall be provided with 25 ampere fuses.

    g. Panel PHM5 shall feed the Existing Addition Area unit that is 18 ton with a 60 ampere circuit breaker, 1-1/4" conduit, 3#6 & #10 ground. The feed shall be extended to (2) 60 ampere fusible disconnect switches located at the paired unit. The switches shall be provided with 25 ampere fuses for the A module and 20 ampere fuses for the B module.

3. Multiple power branch circuits at 208 volt single phase shall be provided to serve the air handling equipment located in the conditioned spaces. Seven branch circuits shall be required with one dedicated per each group as noted in #2 a. through g. above. Each circuit shall be provisioned with a 15 ampere, 2 pole circuit breaker, ¾" conduit with 2#12 and #12 ground.

4. Multiple power branch circuits at 208 volt single phase shall be provided to serve the branch controller equipment located in the conditioned spaces. Seven branch circuits shall be required with one dedicated per each group as noted in #2 a. through g. above. Each circuit shall be provisioned with a 15 ampere, 2 pole circuit breaker, ¾" conduit with 2#12 and #12 ground.

5. Branch circuits shall be installed in EMT conduit. EMT conduit shall be used to the first device in a branch circuit and shall be used in all masonry or CMU partitions. Type MC cable shall be allowed but limited to concealed spaces above finished ceilings or in drywall type partitions after EMT connection has been provided to the first piece of equipment or device. The following provisions shall be included:

    a) Circuits for all HVAC equipment as required. 208 volt wiring to control panels, control transformers, etc shall be provided by the electrician while low voltage control wire shall be provided under Division 23.

    b) Maintenance GFCI and weatherproof outlets located on the roof within 25ft of HVAC rooftop equipment.

## X. Materials and Methods

1. Include the following basic materials and methods of construction:

    a) Wiring will be THHN/THWN copper, installed in EMT conduit to first device or exposed and MC cable for and remainder of circuit, and concealed work.

    b) Disconnect switches will be fusible heavy-duty type. NEMA 1 or 3R as required for the installation location.

    c) Circuit breakers will be fixed element, thermal magnetic type.

    d) Panelboards will contain copper bussing, with hinged door-in-door trim.

    e) Branch circuit breakers shall be bolt-on type.

    f) All conduits, circuits and devices will be labeled.

    g) Conduits above roof or located in exterior conditions shall be EMT with compression fittings. Flexible conduit connections to equipment shall be weatherproof flexible metal conduit.

## XI. Cost Estimate

a) VRF equipment only including outdoor condensing units, indoor units, branch selector boxes, refrigerant piping and BACnet controllers shall be approximately $380,128. With labor and installation the mechanical total would be $504,463.

b) Electrical equipment as outlined above for (2) 225 ampere panelboards, (2) switchboard circuit breakers, (2) 225 ampere feeders to the roof area, branch circuits, fusible disconnects and maintenance receptacles at each rooftop condensing unit, branch wiring inside the building to each air handler and branch controller shall be approximately $89,750.

c) Grand total (mechanical plus electrical, etc.) of $873,598. (see next page for breakdown)

McCarthy Elementary School AC Addition Cost Estimate

| | | Quantity or LF | Cost per | Total |
|---|---|---|---|---|
| VRV Equipment | | | | $ 380,128 |
| VRV install labor only(pg 400) | | 130 | 560 | $ 72,800 |
| Condensate Piping (10' each 1"Dia pg 131) | | 1300 | 17.05 | $ 22,165 |
| Condensing Unit Support(p 421) | | 6 | 1000 | $ 6,000 |
| Testing and balancing(p 267) | | | | $ 23,370 |
| Electrical | | Quantity or LF | Unit Cost | |
| Electric Panels | | 2 | 7500 | $ 15,000 |
| Switchboard Circuit Breakers | | 2 | 6000 | $ 12,000 |
| Feeders - 225 ampere lin ft | | 300 | 40 | $ 12,000 |
| Branch Circuits - Rooftop CU's lin ft | | 1050 | 15 | $ 15,750 |
| Branch Circuits - AH's, Recepts lin ft | | 3500 | 5 | $ 17,500 |
| Disconnect Switches | | 14 | 750 | $ 10,500 |
| Receptacles WP, GFI | | 14 | 500 | $ 7,000 |
| Mechanical subtotal | | | | $ 504,463 |
| Electrical subtotal | | | | $ 89,750 |
| Mechanical + Electrical subtotal | | | | $ 594,213 |
| Shop Drawings | | | | $ 4,000 |
| Permitting | | | $15/$1000 | $ 12,024 |
| Commissioning | | | @1% total | $ 14,575 |
| Genearl Conditions | | | @4% of estimate | $ 29,149 |
| Existing Conditions | | | @0.75% of estimate | $ 5,465 |
| Misc Subtotal | | | | $ 65,213 |
| Mech+Elec + Misc | | | | $ 662,478 |
| Estimate +10% contingency | | | | $ 728,726 |
| Total +10% Construction contingency | | | | $ 801,598 |
| Design (soft costs) | | | | $ 72,000 |
| Grand Total | | | | $ 873,598 |

Framingham - Schools, Town of
73 Mount Wayte Ave., Suite #5
Framingham, MA 01702

Quotation# 17-12766-M

Date: September 28, 2017

Attn: Ernest Moreau, Dir. of Building & Grounds

RE: **301 Brook Street**
**Elevator #100-P-17**

Dear Ernest,

Atlantic Elevator Service is pleased to provide you with our proposal to upgrade the elevator controller located at the above referenced location. Our estimate is based on non-proprietary equipment, and ASME 17.4 2004, and Commonwealth of Massachusetts 524CMR 2006 regulations with the following qualifications and clarifications. Please review the following and do not hesitate to contact me with any questions.

Upgrade with the following criteria:

| | |
|---|---|
| **Quantity & Type:** | One hydraulic passenger elevator |
| **Capacity:** | 2000 pounds |
| **Speed:** | 60 feet per minute |
| **Travel:** | Approx. 15' |
| **Landings:** | Two |
| **Openings:** | 2 in line |
| **Proposed Controls:** | MCE (Motion Control Engineering) Microprocessor **(non-proprietary)** |
| **Operation:** | Selective Collective |
| **Power Supply:** | tbd |

**Microprocessor Control**
The operation will be accomplished utilizing microprocessor computer logic control. The elevator control program will be contained in non-volatile, programmable, read only memory. Control will be constructed such that future alteration in elevator operation may readily be made by altering the read only memory. Safety circuits will be monitored and controlled by the programmable logic control with redundant protection. The microprocessor logic will be enclosed in a cabinet.

**Landing System (LSQ)**
The new landing system will utilize a flexible flat metal tape that runs the length of the hoistway. An electronic magnetic reader box on the car top that will see magnets secured on the tape surface that represent the precise level of each floor level. This new equipment is a simper design and provides more accurate leveling.

**Hoistway Wiring**
We will remove all existing wiring from the hoistway and new wiring will be installed. Multi-conductor type wiring shall be used in the elevator hoistway. All conductors will be copper and shall be #14 for lighting circuits and #18 for operating, control and signal circuits. All new duct and trough will be installed in keeping with all applicable codes.

**Traveling Cables**
We will remove the existing traveling cables and install new cables with 10% spares specifically designed for elevator installations. The cables will be supported Kellum grips. Traveling cables will include shielded telephone and/or intercom wiring terminating in a terminal box located on the car.

**Operation of Elevator Under Fire or Other Emergency Condition (Logic Only)**

This elevator is currently not tied into a fire alarm system and does not possess Fire Fighter Service operation. The new controller is equipped with the FFS capabilities for future upgrades.

**Phase I Emergency Recall Operation:**

A three position key operated switch will be provided only at the designated level for each single elevator or for each group of elevators labeled "Fire Recall" and its positions marked "Reset/Off/On" (in that order), with the "Off" position as the center position. The "Fire Recall" letters shall be a minimum of 5 mm (0.25") high in red or a color contrasting with a red background located in the lobby within sight for each single elevator or for each group of elevators and shall be readily accessible. The key shall be removable only in "On" and "Off" positions.

If required, an additional key-operated "Fire Recall" switch, with two positions, marked "Off" and "On" (in the order) shall be permitted only at the building fire control station.

All "Fire Recall" switches shall be provided with an illuminated visual signal to indicate when Phase I Emergency Recall Operation is in effect. Required signage at the designated level shall be provided.

When the switch is in the "Off" position, normal elevator service shall be provided.

When the switch is in the "On" position, all elevators controlled by this switch and which are on automatic service shall return on-stop to designated level and doors will open and remain open.

A car traveling away from the designated level will reverse at or before the next available floor without opening its doors.

A car stopped at a landing shall have the in-car emergency stop switch rendered inoperative as soon as the door is closed, and the car starts toward the designated level. A moving car, traveling to or away from the designated level, will have the in-car emergency stop switch rendered in-operative immediately.

A car standing at a floor other than the designated level with door open and in-car emergency stop switch in the run position, will closed the doors without delay and proceed to the designated level.

Door re-opening devices for power operated doors which are sensitive to smoke or flame shall be rendered in-operative. Mechanically actuated door re-opening devices not sensitive to smoke of flame shall remain operative. Car door open buttons shall remain operative.

All car and corridor call buttons and all corridor door opening and closing buttons in the car operating panels shall be rendered in-operative and all call registered lights and directional lanterns shall be extinguished and remain in-operative. Position indicators, when provided, shall remain in service.

All cars shall be provided with a visual and audible signal system which shall be activated to alert the passengers that the car is returning non-stop to the designated level.

When a machine room fire alarm is activated, it shall cause visual signal in car with equipment in the machine room to illuminate intermittently.

Smoke Detectors:
The elevator contractor is to provide the necessary controls and connections for smoke detector operation as required by code for Phase I Fireman's Emergency Return.

**Note: Smoke detectors and wiring is work by others.**

**Phase II Emergency In-Car Operation:**
A firefighter's operation panel openable by the same key that operates the "fire Operation" switch shall be provided in the car operating panel in accordance with ASNME A17.1-2004. The front of the cover shall contain the words "Firefighter's Operation" in red letters 10mm (4") high.

"Fire Operation" three position (Off/Hold/On in that order) key switch, Call Cancel button, stop switch, door open and door close buttons, the additional visual signal and operating instructions shall be grouped together at the top of main car operating panel behind locked cover.

Cover shall be permitted to open automatically when car is on Phase I and at recall level.

The label "Fire Operation" lettering shall be a minimum of 5 mm (0.25") high in red or a color contrasting with a red background. It shall become effective only when Phase I Emergency Recall Operation is in effect and the car has been returned to recall level. The switch shall be rotated clockwise to go from "Off" to "Hold" to "On". The key shall be removable in each position.

When "Fire Operation" switch is in the "On" position, the operation of elevator on Phase II Emergency In-Car Operation shall be by emergency service personnel only and shall be as follows:

An elevator shall be operable only by a person in the car.

All corridor call buttons and directional lanterns shall remain inoperative.

The opening of power- operated doors shall be controlled only by continuous pressure "Door Open" button. If the button is released prior to the doors reaching the fully open position, the doors shall automatically reclose. Open doors shall be closed by continuous pressure on "Door Close" button.

When the switch is in the "Hold" position, the car shall remain at the floor with its doors open. "Door Close" button will be in-operative.

Door re-opening devices rendered in-operative shall remain inoperative.

Means shall be provided to cancel registered car calls.

A firefighter's stop switch shall be provided. When the switch is in the "Stop" position all registered calls shall be cancelled and power will be removed from the elevator driving machine, motor and breaker. When switch is moved to the "Run" position from the "Stop" position, the car shall be in-operative except for leveling until a call is registered.

Elevator shall only be removed from phase II operation by moving the emergency key operated switch in the car to the "Off" position with the car at the designated or alternate level (to be coordinated with local authorities).

**Limit Switches**
Limit switches will be provided in the hoistway designed to automatically stop the car at terminal landings.

**Automatic Two-Way Leveling**
An automatic two-way leveling device will be provided so that the car will approach landing stops at reduced speed from either direction of travel. The leveling device will, within its zone, be entirely independent of the operating device and designed to automatically stop and maintain the car approximately level with the landing, regardless of change in load.

**Low Oil Control**
A low oil control feature will be provided designed to automatically cause an up traveling car to descend to the lowest terminal landing if the system does not have a sufficient reservoir of oil. When the elevator has power operated doors, the car and hoistway doors will automatically open at the lowest terminal landing to permit passenger egress. The doors will then automatically close and all control buttons, except the door open button in the car operating panel will be made ineffective.

**Power Unit**
A Non-Proprietary hydraulic power unit especially designed and manufactured for this elevator's particular characteristics will be furnished and installed. Control valves including safety check valve, up direction valve with high pressure relief including up level and soft stop features, lowering valve, including down leveling and manual leveling feature will be mounted in a compact unit assembly. Control valves will be solenoid operated and designed to open and close gradually to give smooth control. All valves will be readily accessible for adjustment.

**Master Door Operator (Both car doors)**
A closed loop door operator and door clutch will be provided to open and close the car and hoistway doors simultaneously. The door movement will be cushioned or checked at both limits of travel. An electro-mechanical interlock will be provided on each hoistway door to prevent the operation of the elevator unless all doors are closed and locked. A door restrictor will not allow the door to open when not at a hall landing.

**Car Door and All Related Equipment**
Car Door hangers, tracks, rollers, closers, locks, door sill guides as needed, and gate switch will be replaced with new to provide reliable and consistent door operation.

**Hoistway Doors Related Equipment**
Hoistway door interlocks will be replaced at all landing to provide reliable and consistent door operation.

**Car Operating Panel**
A flush mounted operating panel will be furnished in the car containing illuminated call buttons for each landing, emergency stop switch, alarm button, emergency light, fire service switch, jewel and call cancel button behind locked cabinet as per elevator code, independent service, engraved "No Smoking" and "in case of fire…" signs, fan switch, and push to talk, auto dial telephone with acknowledgement light.

**Digital Car Position Indicator**
An electric car position indicator will be provided in the car above the car station. The position of the car in the hoistway will be indicated by illumination of the numerals corresponding to the floor at which the elevator is stopped or passing.

**Digital Hall Position Indicator**
At the ***street lobby only*** a surface mounted digital position indicator will be installed.

**Hall Buttons**
Single, surface mounted, illuminated button will be provided at each landing. Street lobby fixture to include fire fighter's service key, fire fighter's service jewel and engraved fire fighter's service instruction as per elevator code. Top and bottom terminal floor will contain access operation. All fixtures to have engraved instructions and designation as per elevator codes.

**Car Direction Sign**
One car direction sign mounted in elevator door strike jamb with audible and visual next direction of travel.

**Fixture Finish**
Fixture finish will be of #4 stainless steel.

**Permits**
We will secure and pay for elevator inspection and permit. Owner is to secure and pay for any electric permits required.

**Guarantee**
Atlantic Elevator Service hereby guarantees material and workmanship of the elevator system pursuant to this contract and will make good (by repairing/replacing at Atlantic Elevator Service's option any defects which may develop within twelve months after elevator inspection and approval of the elevator system by the state elevator inspector and party signatory to this agreement provided all payments due and owing Atlantic Elevator Service pursuant to this contract have been pain in full at such time. Atlantic Elevator Service will not bear responsibility under this guarantee for any defects caused by ordinary wear and tear, improper maintenance, misuse, accidents, negligence or vandalism or by modifications to the elevator system not performed by Atlantic Elevator Service. Atlantic Elevator Service makes no other guarantee, warranty or representation of any nature whatsoever whether expressed or implied.

The cost of the aforementioned work figured to be performed during the regular business hours of our trade is ***Seventy Six Thousand Three Hundred Fifty ($76,350.00) Dollars***. We include all applicable Massachusetts sales tax and elevator installation permit fees.

**Option #1: Battery lowering**
Battery lowering unit provides automatic backup power for a hydraulic elevator when the building loses power. The unit returns the elevator to the lowest landing and the doors open allowing the passenger exit. The elevator will remain at the landing with the doors closed until power is restored.

Add ***One Thousand Four Hundred ($1,400.00) Dollars*** to the base bid.

**Accepted**_____**Rejected**_____

**Qualifications and Specifications:**

- All work to be performed during regular business hours of our trade.
- Price is based on installation to be complete prior to 12/31/2018, inclusive of elevator inspection.
- If emergency phone is required by code, customer to provide phone line. Line must be dedicated with 24/7 answering service with caller ID.
- Proposal includes one State test during regular working hours. If an overtime test is available and requested the overtime permit cost will be billable and all additional labor will be based on our standard hourly overtime rate.
- All preparatory work is by others and should be complete prior to mobilization. (See list of Work by Others).
- Price is contingent on clear and unobstructed access to the installation location.
- Remobilization may result in schedule delay and additional charges.
- See Attached terms and conditions.
- See attached Preparatory Work, (if not already present), to be performed by others.

**Installation schedule (after written receipt of order):**

| | |
|---|---|
| Engineering & manufacturing: | 4 weeks |
| Installation: | 20 working days |

If you find our proposal acceptable please sign and return to my attention.

Terms: 30% upon signed contract
30% upon delivery of equipment
40% progress billing

This quotation is subject to review in 60 days.

Authorized Signature: _____

Title: _____

Firm: _____

Date: _____

Respectfully submitted,

Deborah Bouvette
Account Manager

**Terms and Conditions:**

Atlantic Elevator Service reserves its right to suspend performance of our work upon seven days written notice to you should we, through no fault of our own, not receive timely payment (within 30 days of our invoice) for our work. Should we so suspend, we shall be entitled to our reasonable expenses in demobilizing and remobilizing.

Atlantic Elevator Service shall not be required to turn any of the work over for the beneficial use of others, including but not limited to owner or Purchaser, until the then present value of the agreement, including all extras and change orders, is paid to 90%.

The final balance due on the Proposal, including all retainage, shall be due within 30 days after the elevator has been certified for use by the Massachusetts Department of Public Safety.

Atlantic Elevator Service shall not be liable for any loss, damage or delay caused by acts of government, labor troubles, strikes, lockouts, fire, explosion, theft, floods, riot, civil commotion, war, malicious mischief, acts of God, or any cause beyond its control, and in no event shall Atlantic Elevator Service be liable for special indirect, liquidated or consequential damages. Atlantic Elevator Service shall automatically receive an extension of time commensurate with any delay regarding the aforementioned.

To the fullest extent permitted by law, Purchaser shall defend, indemnify and hold harmless Atlantic Elevator Service and its respective agents, officers, employees and partners (hereinafter collectively "Indemnities") from and against all claims, damages, losses, expenses (including, but not limited to reasonable attorney's fees), liabilities, interest, judgments which (i) are attributable to sickness, disease, or death or to injury or to destruction or damage to tangible property, but only to the extent caused by the negligent acts or omissions of the Purchaser, its sub-contractor(s) or anyone directly or indirectly employed by any of them or anyone for whose acts any of them may be liable, regardless of whether or not it is caused in part by a party indemnified under this Proposal. The aforesaid indemnification obligation shall not be limited in any way by any limitation on the amount or type of damages, compensation or benefits payable by or for the Purchaser's Workman's Compensation, Disability Benefit Acts or other employee benefit acts.

Your acceptance of this Proposal, shall constitute the entire Agreement between Atlantic Elevator Service and you. The Proposal and the exhibits attached hereto contain the Entire Agreement of the parties with respect to the subject matter of this Agreement, and supersede all prior negotiations, agreements and understandings with respect thereto. The Agreement may only be amended by a written document duly executed by all parties. Should your acceptance be in the form of a purchase order or other document, you agree that this the provisions of this document will govern even in the event of a conflict.

In the event of litigation relating to the subject matter of this Agreement, the prevailing party shall be entitled to recover from the non-prevailing party, all reasonable attorney fees and costs resulting there from.

**Preparatory Work for Elevator Project**

The following preparatory work for our project is the responsibility of the Purchaser and is to be completed without delay, cost, or back charge to Atlantic Elevator Service.

**Elevator Equipment Access:**
The Purchaser agrees to provide clear access to the elevator hoistway and machine room to install elevator equipment.

**Power Supply:**
The Purchaser agrees to retain the main electrical power wires good, usable condition in the machine room.

**Mainline Disconnect Switch:**
The Purchaser agrees to provide a lockable intervening fused disconnect switch located in the elevator machine room as required by code.

**Car Lighting Circuit:**
The Purchaser agrees to provide lockable 120 volt, 60 hertz, 20 amp fused single-phase power in the machine room for car lights.

**Dedicated Earth Ground Wiring:**
The Purchaser agrees to provide dedicated earth ground bond from elevator machine room lockable disconnect switch.

**Elevator Machine Room GFCI Receptacles & Lighting:**
The Purchaser agrees to provide adequate permanent light fixtures with switch and GFCI receptacle in elevator machine room.

**Elevator Pit GFCI Receptacles & Lighting:**
The Purchaser agrees to provide adequate permanent light fixtures with switch and GFCI receptacle in elevator pit.

**Fire Alarm Modules & Signaling:**
If elevator fire service features are required by local elevator code, the Purchaser agrees to provide smoke detectors in each elevator lobby and machine room and install (3) fire alarm modules inside machine room to indicate primary floor alarm, alternate floor alarm, and machine room alarms.

**Fire Alarm Testing:**
If elevator fire service features are required by local elevator code, the Purchaser agrees to provide building's fire alarm service vendor at safety test to silence smoke alarm system and activate all elevator related smoke detectors.

**Machine Room Temperature:**
The Purchaser agrees to maintain an ambient temperature in the elevator machine room of between fifty (50) and ninety (90) Degrees Fahrenheit at all times as required by local elevator code.

**Hoistway & Machine Room Ventilation:**
The Purchaser agrees to provide code required ventilation in machine room and hoistway.

**Dedicated Emergency Phone Line:**
The Purchaser agrees to provide telephone line dedicated for elevator use only and located within the elevator machine room.

**Failure to Complete Preparatory Work:**
The Purchaser agrees to indemnify and save harmless Atlantic Elevator Service against all liability growing out of the failure to complete any of the foregoing Preparatory Work.

***Complete all work in such time as to not delay our work.***

95 Shawmut Rd
CANTON, MA 02021-1428
(617) 965 5900
FAX: (617) 244 8197
www.simplexgrinnell.com

# SimplexGrinnell Quotation

TO:
Framingham Public Schools
73 Mount Wayter AVE Suite
Attn: Bldg & Grounds Dept
FRAMINGHAM, MA 01702

Project: Framingham Schools
Customer Reference:
SimplexGrinnell Reference: 108481962
Date: 10/13/2017


SimplexGrinnell is pleased to offer for your consideration this quotation for the above project.

| QUANTITY | MODEL NUMBER | DESCRIPTION |
|---|---|---|
| | **Framingham Schools** | |
| | Framingham Schools | |
| 175 | 14155 | 12.5IN BLACK TRADITIONAL CLOCK |
| 2 | Q12660-2 | 100' FT EXT CABLE FOR XR TX |
| 2 | XR01AP | TRANS ACC PK - TRANS RACK& UPS |
| 3 | XR01IM | 1W Transm w/Ethernet prt w/GPS |
| 8 | 14163-S | 16IN BLK TRAD CLOCK |
| 260 | 14890 | DUAL D CELL ALKALINE BATTERY |

**Total net selling price, FOB shipping point, $25,330.38**

Comments

Quote is based on equipment and quantities indicated.

Equipment only.

MHEC Contract MC13-05 Pricing

**THIS QUOTATION AND ANY RESULTING CONTRACT SHALL BE SUBJECT TO THE GENERAL TERMS AND CONDITIONS ATTACHED HERETO.**
Fire, Security, Communications, Sales & Service
Offices & Representatives in Principal Cities throughout North America

## TERMS AND CONDITIONS

**1. Payment.** Payments shall be invoiced and due in accordance with the terms and conditions set forth above. Work performed on a time and material basis shall be at the then-prevailing Company rate for material, labor, and related items, in effect at the time supplied under this Agreement. Company shall invoice Customer for progress payments to one hundred (100%) percent based upon equipment delivered or stored, and services performed. Customers without established satisfactory credit shall make payments of cash in advance, upon delivery or as otherwise specified by Company. Where Customer establishes and maintains satisfactory credit, payments shall be due and payable thirty (30) days from date of invoice. Company reserves the right to revoke or modify Customer's credit at its sole discretion. The Customer's failure to make payment when due is a material breach of this Agreement.

If Customer fails to make any payment when due, in addition to any other rights and remedies available, Company shall have the right, at Company's sole discretion, to stop performing any Services and/or withhold further deliveries of materials, until the account is current. In the event payment is not received when due, Company may, at its discretion, assess late fees at the rate of 1.5% per month or the maximum rate allowed by law. Customer agrees to pay all costs of collection, including without limitation costs, fees, and attorneys' fees. Customer's failure to make payment when due is a material breach of this Agreement until the account is current.

**2. Pricing.** The pricing set forth in this Agreement is based on the number of devices to be installed and services to be performed as set forth in the Scope of Work ("Equipment" and "Services"). If the actual number of devices installed or services to be performed is greater than that set forth in the Scope of Work, the price will be increased accordingly. If this Agreement extends beyond one year, SimplexGrinnell may increase prices upon notice to the Customer. Customer agrees to pay all taxes, permits, and other charges, including but not limited to state and local sales and excise taxes, however designated, levied or based on the service charges pursuant to this Agreement.

**3. Alarm Monitoring Services.** Any reference to alarm monitoring services in this Agreement is included for pricing purposes only. Alarm monitoring services are performed pursuant to the terms and conditions of Company's standard alarm monitoring services agreement.

**4. Code Compliance.** Company does not undertake an obligation to inspect for compliance with laws or regulations unless specifically stated in the Scope of Work. Customer acknowledges that the Authority Having Jurisdiction (e.g. Fire Marshal) may establish additional requirements for compliance with local codes. Any additional services or equipment required will be provided at an additional cost to Customer.

**5. Limitation of Liability; Limitations of Remedy**. **It is understood and agreed by the Customer that Company is not an insurer and that insurance coverage, if any, shall be obtained by the Customer and that amounts payable to company hereunder are based upon the value of the services and the scope of liability set forth in this Agreement and are unrelated to the value of the Customer's property and the property of others located on the premises. Customer agrees to look exclusively to the Customer's insurer to recover for injuries or damage in the event of any loss or injury and that Customer releases and waives all right of recovery against Company arising by way of subrogation. Company makes no guaranty or Warranty, including any implied warranty of merchantability or fitness for a particular purpose that equipment or services supplied by Company will detect or avert occurrences or the consequences therefrom that the equipment or service was designed to detect or avert.**

**It is impractical and extremely difficult to fix the actual damages, if any, which may proximately result from failure on the part of Company to perform any of its obligations under this Agreement. Accordingly, Customer agrees that, Company shall be exempt from liability for any loss, damage or injury arising directly or indirectly from occurrences, or the consequences therefrom, which the equipment or service was designed to detect or avert. Should Company be found liable for any loss, damage or injury arising from a failure of the equipment or service in any respect, Company's liability shall be limited to an amount equal to the Agreement price (as increased by the price for any additional work) or where the time and material payment term is selected, Customer's time and material payments to Company. Where this Agreement covers multiple sites, liability shall be limited to the amount of the payments allocable to the site where the incident occurred. Such sum shall be complete and exclusive. If Customer desires Company to assume greater liability, the parties shall amend this Agreement by attaching a rider setting forth the amount of additional liability and the additional amount payable by the Customer for the assumption by Company of such greater liability, provided however that such rider shall in no way be interpreted to hold Company as an insurer. IN NO EVENT SHALL COMPANY BE LIABLE FOR ANY DAMAGE, LOSS, INJURY, OR ANY OTHER CLAIM ARISING FROM ANY SERVICING, ALTERATIONS, MODIFICATIONS, CHANGES, OR MOVEMENTS OF THE COVERED SYSTEM(S) OR ANY OF ITS COMPONENT PARTS BY THE CUSTOMER OR ANY THIRD PARTY. COMPANY SHALL NOT BE LIABLE FOR INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND, INCLUDING BUT NOT LIMITED TO DAMAGES ARISING FROM THE USE, LOSS OF THE USE, PERFORMANCE, OR FAILURE OF THE COVERED SYSTEM(S) TO PERFORM. The limitations of liability set forth in this Agreement shall inure to the benefit of all parents, subsidiaries and affiliates of company, whether direct or indirect, company's employees, agents, officers and directors.**

**6. Reciprocal Waiver of Claims (SAFETY Act).** Certain of SimplexGrinnell's systems and services have received Certification and/or Designation as Qualified Anti-Terrorism Technologies ("QATT") under the Support Anti-terrorism by Fostering Effective Technologies Act of 2002, 6 U.S.C. §§ 441-444 (the "SAFETY Act"). As required under 6 C.F.R. 25.5 (e), to the maximum extent permitted by law, SimplexGrinnell and Customer hereby agree to waive their right to make any claims against the other for any losses, including business interruption losses, sustained by either party or their respective employees, resulting from an activity resulting from an "Act of Terrorism" as defined in 6 C.F.R. 25.2, when QATT have been deployed in defense against, response to, or recovery from such Act of Terrorism.

**7. General Provisions.** Customer has selected the service level desired after considering and balancing various levels of protection afforded, and their related costs. Customer acknowledges and agrees that by this Agreement, Company, unless specifically stated, does not undertake any obligation to maintain or render Customer's system or equipment as Year 2000 compliant, which shall mean, capable of correctly handling the processing of calendar dates before or after December 31, 1999. All work to be performed by Company will be performed during normal working hours of normal working days (8:00 a.m. – 5:00 p.m., Monday through Friday, excluding Company holidays), as defined by Company, unless additional times are specifically described in this Agreement.

Company will perform the services described in the Scope of Work section ("Services") for one or more system(s) or equipment as described in the Scope of Work section or the listed attachments ("Covered System(s)").

The Customer shall promptly notify Company of any malfunction in the Covered System(s) which comes to Customer's attention. This Agreement assumes the Covered System(s) are in operational and maintainable condition as of the Agreement date. If, upon initial inspection, Company determines that repairs are recommended, repair charges will be submitted for approval prior to any work. Should such repair work be declined Company shall be relieved from any and all liability arising therefrom. UNLESS OTHERWISE SPECIFIED IN THIS AGREEMENT, ANY INSPECTION (AND, IF SPECIFIED, TESTING) PROVIDED UNDER THIS AGREEMENT DOES NOT INCLUDE ANY MAINTENANCE, REPAIRS, ALTERATIONS, REPLACEMENT OF PARTS, OR ANY FIELD ADJUSTMENTS WHATSOEVER, NOR DOES IT INCLUDE THE CORRECTION OF ANY DEFICIENCIES IDENTIFIED BY COMPANY TO CUSTOMER. COMPANY SHALL NOT BE RESPONSIBLE FOR EQUIPMENT FAILURE OCCURRING WHILE COMPANY IS IN THE PROCESS OF FOLLOWING ITS INSPECTION TECHNIQUES, WHERE THE FAILURE ALSO RESULTS FROM THE AGE OR OBSOLESCENCE OF THE ITEM OR DUE TO NORMAL WEAR AND TEAR. THIS AGREEMENT DOES NOT COVER SYSTEMS, EQUIPMENT, COMPONENTS OR PARTS THAT ARE BELOW GRADE, BEHIND WALLS OR OTHER OBSTRUCTIONS OR EXTERIOR TO THE BUILDING, ELECTRICAL WIRING, AND PIPING.

**8. Customer Responsibilities.** Customer shall furnish all necessary facilities for performance of its work by Company, adequate space for storage and handling of materials, light, water, heat, heat tracing, electrical service, local telephone, watchman, and crane and elevator service and necessary permits. Where wet pipe system is installed, Customer shall supply and maintain sufficient heat to prevent freezing of the system. Customer shall promptly notify Company of any malfunction in the Covered System(s) which comes to Customer's attention. This Agreement assumes any existing system(s) are in operational and maintainable condition as of the Agreement date. If, upon initial inspection, Company determines that repairs are recommended, repair charges will be submitted for approval prior to any work. Should such repair work be declined Company shall be relieved from any and all liability arising therefrom.

Customer shall further:

- supply required schematics and drawings unless they are to be supplied by Company in accordance with this Agreement;
- Provide a safe work environment, in the event of an emergency or Covered System(s) failure, take reasonable safety precautions to protect against personal injury, death, and property damage, continue such measures until the Covered System(s) are operational, and notify Company as soon as possible under the circumstances.
- Provide Company access to any system(s) to be serviced,
- Comply with all laws, codes, and regulations pertaining to the equipment and/or services provided under this agreement.

**9. Excavation.** In the event the Work includes excavation, Customer shall pay, as an extra to the contract price, the cost of any additional work performed by Company dues to water, quicksand, rock or other unforeseen condition or obstruction encountered or shoring required.

**10. Structure and Site Conditions.** While employees of Company will exercise reasonable care in this respect, Company shall be under not responsibility for loss or damage due to the character, condition or use of foundations, walls, or other structures not erected by It or resulting from the excavation in proximity thereto, or for damage resulting from concealed piping, wiring, fixtures, or other equipment or condition of water pressure. All shoring or protection of

**SALE AND INSTALLATION AGREEMENT**
(continued)

foundation, walls or other structures subject to being disturbed by any excavation required hereunder shall be the responsibility of Customer. Customer shall have all things in readiness for installation including, without limitation, structure to support the sprinkler system and related equipment (including tanks), other materials, floor or suitable working base, connections and facilities for erection at the time the materials are delivered. In the event Customer fails to have all things in readiness at the time scheduled for receipt of materials, Customer shall reimburse Company for all expenses caused by such failure. Failure to make areas available to Company during performance in accordance with schedules that are the basis for Company's proposal shall be considered a failure to have things in readiness in accordance with the terms of this Agreement.

**11. Confined Space.** If access to confined space by Company is required for the performance of Services, Services shall be scheduled and performed in accordance with Company's then-current hourly rate.

**12. Hazardous Materials.** Customer represents that, except to the extent that Company has been given written notice of the following hazards prior to the execution of this Agreement, to the best of Customer's knowledge there is no:

- "permit confined space," as defined by OSHA,
- risk of infectious disease,
- need for air monitoring, respiratory protection, or other medical risk,
- asbestos, asbestos-containing material, formaldehyde or other potentially toxic or otherwise hazardous material contained in or on the surface of the floors, walls, ceilings, insulation or other structural components of the area of any building where work is required to be performed under this Agreement.

All of the above are hereinafter referred to as "Hazardous Conditions".

Company shall have the right to rely on the representations listed above. If hazardous conditions are encountered by Company during the course of Company's work, the discovery of such materials shall constitute an event beyond Company's control and Company shall have no obligation to further perform in the area where the hazardous conditions exist until the area has been made safe by Customer as certified in writing by an independent testing agency, and Customer shall pay disruption expenses and re-mobilization expenses as determined by Company.

This Agreement does not provide for the cost of capture, containment or disposal of any hazardous waste materials, or hazardous materials, encountered in any of the Covered System(s) and/or during performance of the Services. Said materials shall at all times remain the responsibility and property of Customer. Company shall not be responsible for the testing, removal or disposal of such hazardous materials.

**13. OSHA Compliance.** Customer shall indemnify and hold Company harmless from and against any and all claims, demands and/or damages arising in whole or in part from the enforcement of the Occupational Safety Health Act (and any amendments or changes thereto) unless said claims, demands or damages are a direct result of causes within the exclusive control of Company.

**14. Interferences.** Customer shall be responsible to coordinate the work of other trades (including but not limited to ducting, piping, and electrical) and for and additional costs incurred by Company arising out of interferences to Company's work caused by other trades.

**15. Modifications and Substitutions.** Company reserves the right to modify materials, including substituting materials of later design, providing that such modifications or substitutions will not materially affect the performance of the Covered System(s).

**16. Changes, Alterations, Additions.** Changes, alterations and additions to the Scope of Work, plans, specifications or construction schedule shall be invalid unless approved in writing by Company. Should changes be approved by Company, that increase or decrease the cost of the work to Company, the parties shall agree, in writing, to the change in price prior to performance of any work. However, if no agreement is reached prior to the time for performance of said work, and Company elects to perform said work so as to avoid delays, then Company's estimate as to the value of said work shall be deemed accepted by Customer. In addition, Customer shall pay for all extra work requested by Customer or made necessary because of incompleteness or inaccuracy of plans or other information submitted by Customer with respect to the location, type of occupancy, or other details of the work to be performed. In the event the layout of Customer's facilities has been altered, or is altered by Customer prior to the completion of the Work, Customer shall advise Company, and prices, delivery and completion dates shall be changed by Company as may be required.

**17. Commodities Availability.** Company shall not be responsible for failure to provide services, deliver products, or otherwise perform work required by this Agreement due to lack of available steel products or products made from plastics or other commodities. 1) In the event Company is unable, after reasonable commercial efforts, to acquire and provide steel products, or products made from plastics or other commodities, if required to perform work required by this Agreement, Customer hereby agrees that Company may terminate the Agreement, or the relevant portion of the Agreement, at no additional cost and without penalty. Customer agrees to pay Company in full for all work performed up to the time of any such termination. 2) If Company is able to obtain the steel products or products made from plastics or other commodities, but the price of any of the products has risen by more than 10% from the date of the bid, proposal or date Company executed this Agreement, whichever occurred first, then Company may pass through that increase through a reasonable price increase to reflect increased cost of materials.

**18. Project Claims.** Any claim of failure to perform against Company arising hereunder shall be deemed waived unless received by Company, in writing specifically setting forth the basis for such claim, within ten (10) days after such claims arises.

**19. Backcharges.** No charges shall be levied against the Seller unless seventy-two (72) hours prior written notice is given to Company to correct any alleged deficiencies which are alleged to necessitate such charges and unless such alleged deficiencies are solely and directly caused by Company.

**20. System Equipment.** The purchase of equipment or peripheral devices (including but not limited to smoke detectors, passive infrared detectors, card readers, sprinkler system components, extinguishers and hoses) from Company shall be subject to the terms and conditions of this Agreement. If, in Company's sole judgment, any peripheral device or other system equipment, which is attached to the Covered System(s), whether provided by Company or a third party, interferes with the proper operation of the Covered System(s), Customer shall remove or replace such device or equipment promptly upon notice from Company. Failure of Customer to remove or replace the device shall constitute a material breach of this Agreement. If Customer adds any third party device or equipment to the Covered System(s), Company shall not be responsible for any damage to or failure of the Covered System(s) caused in whole or in part by such device or equipment.

**21. Reports.** Where inspection and/or test services are selected, such inspection and/or test shall be completed on Company's then current Report form, which shall be given to Customer, and, where applicable, Company may submit a copy thereof to the local authority having jurisdiction. The Report and recommendations by Company are only advisory in nature and are intended to assist Customer in reducing the risk of loss to property by indicating obvious defects or impairments noted to the system and equipment inspected and/or tested. They are not intended to imply that no other defects or hazards exist or that all aspects of the Covered System(s), equipment, and components are under control at the time of inspection. Final responsibility for the condition and operation of the Covered System(s) and equipment and components lies with Customer.

**22. Limited Warranty.** Subject to the limitations below, Company warrants any equipment (as distinguished from the Software) installed pursuant to this Agreement to be free from defects in material and workmanship under normal use for a period of one (1) year from the date of first beneficial us or all or any part of the Covered System(s) or 18 months after Equipment shipments, whichever is earlier, provided however, that Company's soles liability, and Customer's sole remedy, under this limited warranty shall be limited to the repair or replacement of the Equipment or any part thereof, which Company determines is defective, at Company's sole option and subject to the availability of service personnel and parts, as determined by Company. Company warrants expendable items, including, but not limited to, video and print heads, television camera tubes, video monitor displays tubes, batteries and certain other products in accordance with the applicable manufacturer's warranty. Company does not warrant devices designed to fail in protecting the System, such as, but not limited to, fuses and circuit breakers.

Company warrants that any Company software described in this Agreement, as well as software contained in or sold as part of any Equipment described in this Agreement, will reasonably conform to its published specifications in effect at the time of delivery and for ninety (90) days after delivery. However, Customer agrees and acknowledges that the software may have inherent defects because of its complexity. Company's sole obligation with respect to software, and Customer's sole remedy, shall be to make available published modifications, designed to correct inherent defects, which become available during the warranty period.

If Repair Services are included in this Agreement, Company warrants that its workmanship and material for repairs made pursuant to this Agreement will be free from defects for a period of ninety (90) days from the date of furnishing.

**EXCEPT AS EXPRESSLY SET FORTH HEREIN, COMPANY DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE SERVICES PERFORMED OR THE PRODUCTS, SYSTEMS OR EQUIPMENT, IF ANY, SUPPORTED HEREUNDER. COMPANY MAKES NO WARRANTY OR REPRESENTATION, AND UNDERTAKES NO OBLIGATION TO ENSURE BY THE SERVICES PERFORMED UNDER THIS AGREEMENT, THAT COMPANY'S PRODUCTS OR THE SYSTEMS OR EQUIPMENT OF THE CUSTOMER WILL CORRECTLY HANDLE THE PROCESSING OF CALENDAR DATES BEFORE OR AFTER DECEMBER 31, 1999.**

Warranty service will be performed during Company's normal working hours. If Customer requests warranty service at other than normal working hours, service will be performed at Company's then current rates for after ours services. All repairs or adjustments that are or may become necessary shall be performed by and authorized representative of Company. Any repairs, adjustments or interconnections performed by Customer or any third party shall void all warranties.

**23. Indemnity.** Customer agrees to indemnify, hold harmless and defend Company against any and all losses, damages, costs, including expert fees and costs, and expenses including reasonable defense costs, arising from any and all third party claims for personal injury, death, property damage or economic loss, including specifically any damages resulting from the exposure of workers to Hazardous Conditions whether or not Customer pre-notifies Company of the existence of said hazardous conditions, arising in any way from any act or omission of Customer or Company relating in any way to this Agreement, including but not limited to the Services under this Agreement, whether such claims are based upon contract, warranty, tort (including but not limited to active or passive negligence), strict liability or otherwise. Company reserves the right to select counsel to represent it in any such action.

**24. Insurance.** Customer shall name Company, its officers, employees, agents, subcontractors, suppliers, and

**SALE AND INSTALLATION AGREEMENT**
(continued)

representatives as additional insureds on Customer's general liability and auto liability policies.

**25. Termination.** Any termination under the terms of this Agreement shall be made in writing. In the event Customer terminates this Agreement prior to completion for any reason not arising solely from Company's performance or failure to perform, Customer understands and agrees that Company will incur costs of administration and preparation that are difficult to estimate or determine. Accordingly, should Customer terminate this Agreement as described above, Customer agrees to pay all charges incurred for products and equipment installed and services performed, and in addition pay an amount equal to twenty (20%) percent of the price of products and equipment not yet delivered and Services not yet performed, return all products and equipment delivered and pay a restocking fee of twenty (20%) percent the price of products or equipment returned.

Company may terminate this Agreement immediately at its sole discretion upon the occurrence of any Event of Default as hereinafter defined. Company may also terminate this Agreement at its sole discretion upon notice to Customer if Company's performance of its obligations under this Agreement becomes impracticable due to obsolescence of equipment at Customer's premises or unavailability of parts.

**26. No Option to Solicit.** Customer shall not, directly or indirectly, on its own behalf or on behalf of any other person, business, corporation or entity, solicit or employ any Company employee, or induce any Company employee to leave his or her employment with Company, for a period of two years after the termination of this Agreement.

**27. Default.** An Event of Default shall be 1) failure of the Customer to pay any amount within ten (10) days after the amount is due and payable, 2) abuse of the System or the Equipment, 3) dissolution, termination, discontinuance, insolvency or business failure of Customer. Upon the occurrence of an Event of Default, Company may pursue one or more of the following remedies, 1) discontinue furnishing Services, 2) by written notice to Customer declare the balance of unpaid amounts due and to become due under the this Agreement to be immediately due and payable, provided that all past due amounts shall bear interest at the rate of 1 ½% per month (18% per year) or the highest amount permitted by law, 3) receive immediate possession of any equipment for which Customer has not paid. 4) proceed at law or equity to enforce performance by Customer or recover damages for breach of this Agreement, and 5) recover all costs and expenses, including without limitation reasonable attorneys' fees, in connection with enforcing or attempting to enforce this Agreement.

**28. Exclusions**. Unless expressly included in the Scope of Work, this Agreement expressly excludes, without limitation, testing inspection and repair of duct detectors, beam detectors, and UV/IR equipment; provision of fire watches; clearing of ice blockage; draining of improperly pitched piping; replacement of batteries; recharging of chemical suppression systems; reloading of, upgrading, and maintaining computer software; system upgrades and the replacement of obsolete systems, equipment, components or parts; making repairs or replacements necessitated by reason of negligence or misuse of components or equipment or changes to Customer's premises, vandalism, corrosion (including but not limited to micro-bacterially induced corrosion ("MIC")), power failure, current fluctuation, failure due to non-Company installation, lightning, electrical storm, or other severe weather, water, accident, fire, acts of God or any other cause external to the Covered System(s). Repair Services provided pursuant to this Agreement do not cover and specifically excludes system upgrades and the replacement of obsolete systems, equipment, components or parts. All such services may be provided by Company at Company's sole discretion at an additional charge. If Emergency Services are expressly included in the scope of work section, the Agreement price does not include travel expenses.

**29. Force Majeure; Delays.** Company shall not be liable for any damage or penalty for delays or failure to perform work due to acts of God, acts or omissions of Customer, acts of civil or military authorities, Government regulations or priorities, fires, epidemics, quarantine, restrictions, war, riots, civil disobedience or unrest, strikes, delays in transportation, vehicle shortages, differences with workmen, inability to obtain necessary labor, material or manufacturing facilities, defaults of Company's subcontractors, failure or delay in furnishing compete information by Customer with respect to location or other details of work to be performed, impossibility or impracticability of performance or any other cause or causes beyond Company's control, whether or not similar to the foregoing. In the event of any delay caused as aforesaid, completion shall be extended for a period equal to any such delay, and this contract shall not be void or voidable as a result of the delay. In the event work is temporarily discontinued by any of the foregoing, all unpaid installments of the contract price, les an amount equal to the value of material and labor not furnished, shall be due and payable upon receipt of invoice by Customer.

**30. One-Year Limitation on Actions; Choice of Law.** It is agreed that no suit, or cause of action or other proceeding shall be brought against either party more than one (1) year after the accrual of the cause of action or one (1) year after the claim arises, whichever is shorter, whether known or unknown when the claim arises or whether based on tort, contract, or any other legal theory. The laws of Massachusetts shall govern the validity, enforceability, and interpretation of this Agreement.

**31. Assignment.** Customer may not assign this Agreement without Company's prior written consent. Company may assign this Agreement to an affiliate without obtaining Customer's consent.

**32. Entire Agreement.** The parties intend this Agreement, together with any attachments or Riders (collectively the "Agreement) to be the final, complete and exclusive expression of their Agreement and the terms and conditions thereof. This Agreement supersedes all prior representations, understandings or agreements between the parties, written or oral, and shall constitute the sole terms and conditions of sale for all equipment and services. No waiver, change, or modification of any terms or conditions of this Agreement shall be binding on Company unless made in writing and signed by an Authorized Representative of Company.

**33. Severability.** If any provision of this Agreement is held by any court or other competent authority to be void or unenforceable in whole or in part, this Agreement will continue to be valid as to the other provisions and the remainder of the affected provision.

**34. Legal Fees.** Company shall be entitled to recover from the customer all reasonable legal fees incurred in connection with Company enforcing the terms and conditions of this Agreement.

**35. License Information** (Security System Customers): AL Alabama Electronic Security Board of Licensure 7956 Vaughn Road, Pmb 392, Montgomery, Alabama 36116 (334) 264-9388: AR Regulated by: Arkansas Board of Private Investigators And Private Security Agencies, #1 State Police Plaza Drive, Little Rock 72209 (501)618-8600: CA Alarm company operators are licensed and regulated by the Bureau of Security and Investigative Services, Department of Consumer Affairs, Sacramento, Ca, 95814. Upon completion of the installation of the alarm system, the alarm company shall thoroughly instruct the purchaser in the proper use of the alarm system. Failure by the licensee, without legal excuse, to substantially commence work within 20 days from the approximate date specified in the agreement when the work will begin is a violation of the Alarm Company Act: NY Licensed by N.Y.S. Department of the State: TX Texas Commission on Private Security, 5805 N. Lamar Blvd., Austin, 78752-4422, 512-424-7710. License numbers available at www.simplexgrinnell.com or contact your local SimplexGrinnell office.

(Rev. 10/08)

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***IMPORTANT NOTICE TO CUSTOMER***

In accepting this Proposal, Customer agrees to the terms and conditions contained herein including those on the following pages of this Agreement and any attachments or riders attached hereto that contain additional terms and conditions. It is understood that these terms and conditions shall prevail over any variation in terms and conditions on any purchase order or other document that the Customer may issue. Any changes in the system requested by the Customer after the execution of this Agreement shall be paid for by the Customer and such changes shall be authorized in writing. **ATTENTION IS DIRECTED TO THE LIMITATION OF LIABILITY, WARRANTY, INDEMNITY AND OTHER CONDITIONS ON THE FOLLOWING PAGES. This Proposal shall be void if not accepted in writing within thirty (30) days from the date of the Proposal.**

| | |
|---|---|
| Offered By:<br>SimplexGrinnell LP License#:<br><br>95 Shawmut Rd<br>CANTON, MA 02021-1428<br><br>Telephone: (617) 965 5900 Fax: 617-244-8197<br><br>Representative: Christopher J. Filanowski<br><br>Email: cfilanowski@simplexgrinnell.com | Accepted By: (Customer)<br><br>Company: _____<br><br>Address: _____<br><br>Signature: _____<br><br>Title: _____<br><br>P.O.#: _____ Date: _____ |

# FY2019 Requested: Deferred to FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | FPS/B&G/2019/A | **Budget Year:** | 2019 |
| **Project Title:** | Heating Ventilation Air Conditioning - 3 Schools | **Scenario:** | Main 2019 |
| **Asset Type:** | SCHOOL BUILDINGS | **Budget Status:** | Department Request |
| **Department:** | C3-971 - Building & Grounds Department | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2018 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

A schematic design was performed by CES (Consulting Engineering Services) to determine the cost to replace the exhaust fans at Walsh Elementary School, add cooling to the existing Framingham High School and McCarthy Elementary School HVAC systems. These projects may be advertised and bid separately.

## Comments:

## Justification:

We believe that all of these projects combined will be roughly two million dollars including final design work, preparation of bid documents, specifications & plans, OPM services, construction oversight, construction and project closeout costs.

The estimates for the work to be performed at the school are as follows:

| | |
|---|---|
| Walsh Middle School | $ 53,918 |
| McCarthy Elementary School | $873,598 |
| Framingham High School | $874,283 |

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 2,000,000 | 0 | 2,000,000 |
| | **2,000,000** | **0** | **2,000,000** |

## Project Details 2019

| Object | Description | | Total Amount |
|---|---|---|---|
| **Expense** | | | |
| 39710006-58300 | Improvements | | 2,000,000 |
| | | **Total Expense:** | **2,000,000** |

## 16. Heating Ventilation Air Conditioning (HVAC)

**FY19:**

A schematic design was performed by CES (Consulting Engineering Services) to determine the cost to replace the exhaust fans at Walsh Elementary School, add cooling to the existing Framingham High School and McCarthy Elementary School HVAC systems. These projects may be advertised and bid separately.

We believe that all of these projects combined will be roughly two million dollars including final design work, preparation of bid documents, specifications & plans, OPM services, construction oversight, construction and project closeout costs.

The estimates for the work to be performed at the school are as follows:

| | |
|---|---|
| Walsh Middle School | $ 53,918 |
| McCarthy Elementary School | $873,598 |
| Framingham High School | $874,283 |

**$2,000,000**

# Mechanical and Electrical Systems Conceptual Design Narrative

# For

**Walsh Middle School**
301 Brook Street
Framingham, MA

October 5, 2017

Prepared by:

Consulting Engineering Services, LLC

128 Carnegie Row Suite 204, Norwood, Massachusetts, 02062

CES PN 2017277.00

# Scope of Work

## I. EXECUTIVE SUMMARY

Consulting Engineering Services has been retained by the Town of Framingham to provide a schematic design for the mechanical and electrical systems associated with the replacement of exhaust fans at the Walsh Middle School in Framingham, MA. The existing building is located at 301 Brook Street.

## II. APPLICABLE CODES AND STANDARDS

The mechanical and electrical systems will be provided in conformance with the requirements of the following codes and regulations and all applicable local authority requirements.

A. 2016 Massachusetts State Building Code

B. 2016 Massachusetts State Fire Safety Code

C. 2009 International Mechanical Code

D. 2015 International Energy Conservation Code

E. NFPA, All applicable code sections, Latest Version

F. ASHRAE 90.1-2013

G. ASHRAE 62.1

H. 2014 National Electric Code

## III. MECHANICAL SYSTEMS:

## IV. Exhaust Fan Replacement

Remove existing exhaust fan and connect new exhaust fan to existing ductwork below roof. Provide galvanized curb adaptor where required below. Contractor to verify existing roof opening dimensions before ordering new fans.

The following exhaust fans shall be replaced:

1. EF-B1, 6900 CFM serving half of the boys gym. New model to be Greenheck GB-360-10, 1 Hp. Fan will need motor contactors. Two speed fan. 208 volt/3 phase/ 60 Hz.

2. EF-B2, 6900 CFM serving half of the boys gym. New model to be Greenheck GB-360-10, 1 Hp. Fan will need motor contactors. Two speed fan. 208 volt/3 phase/ 60 Hz.

3. EF-B4, 5000 CFM serving half of the girls gym. New model to be Greenheck GB-330-7, ¾ Hp. Fan will need motor contactors. Two speed fan. 208 volt/3 phase/ 60 Hz.

4. EF-B5, 5000 CFM serving half of the girls gym. New model to be Greenheck GB-330-7, ¾ Hp. Fan will need motor contactors. Two speed fan. 208 volt/3 phase/ 60 Hz.

5. EF-B7, 2350 CFM, serving the corrective gym. New model to be Greenheck GB-180-7, ¾ Hp, 120 volt/1 phase/ 60 Hz.

6. EF-B9, 950 CFM, serving guidance. New model to be Greenheck GB-121-4, ¼ Hp, 120 volt/1 phase/ 60 Hz.

7. EF-B14, 800 CFM, serving basket storage. New model to be Greenheck GB-121-4, ¼ Hp, 120 volt/1 phase/ 60 Hz.

8. EF-B16, 760 CFM, serving Storage. New model to be Greenheck GB-091-4, ¼ Hp, 120 volt/1 phase/ 60 Hz.

9. EF-C3, 380 CFM, serving toilets. New model to be Greenheck GB-081-6, 1/6 Hp, 120 volt/1 phase/ 60 Hz.

10. EF-D1, 380 CFM, serving shops. New model to be Greenheck GB-081-6, 1/6 Hp, 120 volt/1 phase/ 60 Hz.

11. EF-D2, 840 CFM, serving shops. New model to be Greenheck GB-121-5, ½ Hp, 120 volt/1 phase/ 60 Hz. EC motor direct drive with wall switch for speed control.

12. EF-D3, 520 CFM, serving office. New model to be Greenheck GB-081-6, 1/6 Hp, 120 volt/1 phase/ 60 Hz.

13. EF-D6, 500 CFM, serving shops. New model to be Greenheck GB-081-6, 1/6 Hp, 120 volt/1 phase/ 60 Hz.

14. EF-E2, 2400 CFM, serving Library. New model to be Greenheck GB-180-3, 1/3 Hp. 120 volt/1 phase/ 60 Hz.

15. EF-E10, 400 CFM, serving plant life. New model to be Greenheck GB-081-6, 1/6 Hp, 120 volt/1 phase/ 60 Hz.

## V. General Mechanical

1. Connect to existing Building Management System (BMS) installed at the building.
    a) The BMS shall integrate to the new exhaust fans.

## VI. Materials and Methods:

a) All motors provided shall be high efficiency or better.

b) Seismic restraints shall be installed as required per the State of Massachusetts Building Code. This includes piping and equipment. The contractor shall engage a qualified structural engineer to design the seismic restraint systems.

c) Provide mechanical identification for mechanical systems. Identification shall comply with ANSI A13.1.

d) Provide vibration isolation for equipment.

e) The contractor shall provide testing, adjusting and balancing (TAB) services for the new exhaust fans. All fans to be rebalanced to airflow shown on new fan.

## VII. ELECTRICAL SYSTEMS

## VIII. Electrical Service

1. Electrical contractor shall identify the branch circuits that feed each exhaust fan being replaced in conformance with the mechanical drawings.

2. Provide lock out/ tag out hardware at the applicable panelboard circuit breaker as each fan is being replaced. For each fan circuit the Electrical contractor shall disconnect the existing wiring system and temporarily pull back to a point below the roof. Once the mechanical contractor has installed the new fan the existing branch circuit shall be reconnected to the new fan. Where existing branch circuiting is of insufficient length to promote reconnection to the new fan provide a new MC cable whip that extends the existing circuit from a new junction box up to the new fan motor disconnect location.

## IX. Materials and Methods

1. Include the following basic materials and methods of construction:

   a) Wiring will be THHN/THWN copper, installed in EMT conduit to first device or exposed and MC cable for and remainder of circuit, and concealed work.

   b) All conduit installed in exterior location shall be Rigid Galvanized Steel, EMT with compression fittings, or Weatherproof Flexible Metallic Conduit.

   c) Receptacles shall be specification grade, NEMA 5-20R etc.

   d) Disconnect switches will be fusible heavy-duty type. NEMA 1 or 3R as required for the installation location.

   e) Circuit breakers will be fixed element, thermal magnetic type.

   f) Branch circuit breakers shall be bolt-on type.

   g) All conduits, circuits and devices will be labeled.

## X. Cost Estimate

a) Exhaust fans equipment only including curbs shall be approximately $24,500. With labor and installation the total would be $34,231.

b) Electrical equipment as outlined above for exhaust fan connections shall be approximately $7,500.

c) Grand total (mechanical plus electrical etc.) of $53,918.

Walsh Middle School Exhaust Fan Replacement Cost Estimate

| | Tag | CFM | Labor Cost | Fan Costs (15 qty( | Curbs (15 qty) | |
|---|---|---|---|---|---|---|
| Fans (material only) | | | | $ 21,000 | $ 3,500 | |
| Labor(p 335) | EF-B1 | 6900 | $ 355 | | | |
| | EF-B2 | 6900 | $ 355 | | | |
| | EF-B4 | 5000 | $ 266 | | | |
| | EF-B5 | 5000 | $ 266 | | | |
| | EF-B7 | 2350 | $ 212 | | | |
| | EF-B9 | 950 | $ 253 | | | |
| | EF-B14 | 800 | $ 212 | | | |
| | EF-B16 | 760 | $ 212 | | | |
| | EF-C3 | 380 | $ 177 | | | |
| | EF-D1 | 380 | $ 177 | | | |
| | EF-D2 | 840 | $ 253 | | | |
| | EF-D3 | 520 | $ 177 | | | |
| | EF-D6 | 500 | $ 177 | | | |
| | EF-E2 | 2400 | $ 212 | | | |
| | EF-E10 | 400 | $ 177 | | | |
| Shop Drawings | | | | | | $ 1,000 |
| testing and balancing(p266) | | | | | | $ 5,250 |
| Mechanical subtotal | | | | | | $ 34,231 |
| | | | | | | |
| Electrical | | | | | | $ 7,500 |
| Permitting | | | | $15/$1000 | | $ 809 |
| | | | | | | |
| Total +10% Estimate Contingency | | | | | | $ 46,794 |
| General Conditions | | | | @4% of estimate | | $ 1,872 |
| Existing Conditions | | | | @0.75% of estimate | | $ 351 |
| Total +10% Contruction Contingency | | | | | | $ 53,918 |
| Design costs previously submitted and approved by Framingham | | | | | | |

# FY2019 Requested: Deferred to FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | FPS/B&G/2019/E | **Budget Year:** | 2019 |
| **Project Title:** | Paving Replacement/Storm Water - Brophy School FY19 | **Scenario:** | Main 2019 |
| **Asset Type:** | PAVED PARKING LOTS | **Budget Status:** | Department Request |
| **Department:** | C3-971 - Building & Grounds Department | **Regions:** | |
| **Project Type:** | Stormwater Improvement | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | Jul 1, 2018 | **Project Partner:** | |
| **Est. Completion Date:** | Jun 30, 2019 | | |

## Description:

Multi-phased project with ongoing work to preserve, repair, and maintain school parking lots, driveways and storm water systems. As in the past, the Town Unit Pricing Contracts will be utilized.

## Comments:

## Justification:

This is an ongoing request for upgrades to existing school driveways, parking lots and storm water systems. This also ties to the NPDES (National Pollution Discharge Elimination System) requirement that all town buildings storm-water run-off including roofs is pretreated prior to allowing storm water to run into streams, brooks, ponds etc. All of this work is performed under the utilization of the Towns DPW Unit Pricing Contract

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 720,000 | 0 | 720,000 |
| | **720,000** | **0** | **720,000** |

**15. Paving - Brophy**

**FY19:**

This is an ongoing request for upgrades to existing school driveways, parking lots and storm water systems. This also ties to the NPDES (National Pollution Discharge Elimination System) requirement that all town buildings storm-water run-off including roofs is pretreated prior to allowing storm water to run into streams, brooks, ponds etc. All of this work is performed under the utilization of the Towns DPW Unit Pricing Contract.

**$ 720,000**

*****Please note that paving must be completed during the months of July and August when students are not in the schools. Requested amounts reflect the amount of construction and installation work that can be completed in this short time frame.**

BETA
ENGINEERING SUCCESS TOGETHER

Town of Framingham
Department of Public Works

Date: 10-04-2017

| Item No. | Estimated Quantity | Unit | Description | Estimated Unit Price (2016) | Total Price |
|---|---|---|---|---|---|
| 120.1 | 0 | CY | Unclassified Excavation | $ 0.01 | $ - |
| 129 | 13,444 | SY | Hot Mix Asphalt Pavement Milling | $ 6.00 | $ 80,666.67 |
| 170 | 50 | SY | Fine Grading and Compacting | $ 1.00 | $ 50.00 |
| 201.5 | 4 | EA | Catch Basin - Municipal Standard | $ 7,000.00 | $ 28,000.00 |
| 202.01 | 2 | EA | Manhole – Municipal Standard | $ 7,000.00 | $ 14,000.00 |
| 205.91 | 70 | EA | Precast Concrete Leaching Galley – (4'x4'x4') | $ 1,200.00 | $ 84,000.00 |
| 205.96 | 1 | EA | Water Quality Unit | $ 30,000.00 | $ 30,000.00 |
| 222.3 | 6 | EA | Frame and Grate (or Cover) Municipal Standard | $ 800.00 | $ 4,800.00 |
| 241.12 | 200 | FT | 12 Inch Reinforced Concrete Pipe | $ 125.00 | $ 25,000.00 |
| 241.18 | 200 | FT | 18 Inch Reinforced Concrete Pipe | $ 125.00 | $ 25,000.00 |
| 241.24 | 200 | FT | 24 Inch Reinforced Concrete Pipe | $ 125.00 | $ 25,000.00 |
| 455.23 | 1,600 | TON | Superpave Surface Course – 12.5 (SSC-12.5) | $ 90.00 | $ 144,000.00 |
| 455.31 | 1,600 | TON | Superpave Intermediate Course – 12.5 (SIC-12.5) | $ 90.00 | $ 144,000.00 |
| | | | | | $ |
| | | | | | $ |
| | | | | | $ |
| | | | | Subtotal | $ 604,516.67 |
| | | | | Contingency (10%) | $ 60,451.67 |
| | | | | Total | $ 664,968.34 |
| | | | | SAY | $ **665**,000.00 |

TOWN OF FRAMINGHAM
DEPARTMENT OF PUBLIC WORKS
FRAMINGHAM, MASSACHUSETTS 01702

*"Dedicated to Excellence in Public Service"*

PETER A. SELLERS
EXECUTIVE DIRECTOR | FDPW
PAUL G. BARDEN
DEPUTY DIRECTOR | FDPW
WILLIAM R. SEDEWITZ - PE
CHIEF ENGINEER | FDPW
DIANE M. CONNER
ASSISTANT DIRECTOR | FDPW

March 31, 2017

Mr. Richard A. DeFelice, President
Newport Construction Corp.
145 Temple Street
Nashua, NH 03060

Re: PW345 – On Call Road Rehabilitation
Executed Short Form Agreement Contract

Dear Mr. DeFelice:

Enclosed please find the executed Short Form of Agreement between the Town of Framingham and Newport Construction Corp. for PW-345 On Call Road Rehabilitation. This Agreement is for a term of one year commencing on March 30, 2017 and ending on March 29, 2018 and may be renewed at the sole option of the Town at the same prices, terms and conditions for up to two additional one-year periods.

Regards,

Ann O'Regan

Ann O'Regan
Capital Procurement Administrator

Enclosure (1)

cc: Daniel Nau, Director of Highway and Sanitation

# SHORT FORM OF AGREEMENT FOR CONSTRUCTION BETWEEN TOWN AND CONTRACTOR

THIS AGREEMENT for **On-Call Road Rehabilitation** (hereinafter referred to as the "Project"), is made the 30th **day of** March**, 2017,** by and between **Newport Construction Corp.,** a corporation duly organized under the laws of the State of New Hampshire, with a usual place of business at **145 Temple Street, Nashua, NH 03060,** (hereinafter referred to as the "CONTRACTOR"), and the Town of Framingham, a municipal corporation duly organized under the laws of the Commonwealth of Massachusetts, (hereinafter referred to as the "TOWN").

**WITNESSETH** that the CONTRACTOR and the TOWN, for the consideration hereinafter named, agree as follows:

***ARTICLE 1: Contract Documents***

The Contract Documents consist of the following, and in the event of conflicts or discrepancies among them, they shall be interpreted on the basis of the following priorities and in the manner most favorable to the Town:

This Short Form of Agreement for Procurement between Town and Contractor

General Conditions of the Construction Contract, as modified by the Supplementary Conditions

Specifications

Invitation for bids, bid specifications, request for proposals or purchase description

Drawings required for the project

Performance bond in the form attached hereto as **Exhibit A**

Payment bond in the form attached hereto as **Exhibit B**

Addenda issued prior to execution of the Agreement

Contractor's bid or proposal

Modifications issued after execution of the Agreement, which are not attached hereto, including the following:

Work Order issued by the Town

Written amendment to the Agreement signed by both parties

Change Order

Copies of all required bonds, certificates of insurance and licenses required under the Agreement

Notice to Proceed, which may be delivered or issued on or after the Effective Date of this Agreement and may not be attached hereto, and

Affirmative Action & Equal Employment Opportunity Requirements attached hereto as **Exhibit E;** the Summary of Conflict of Interest Law for Municipal Employees attached hereto as **Exhibit C**, as well as the acknowledgement of receipt of summary attached hereto as **Exhibit D** and confirmation of completion of online training; and any Statement of Compliance required pursuant to G.L. c, 149, § 27B.

EACH OF WHICH IS ATTACHED HERETO except as otherwise provided. These documents form the entire Agreement between the parties and there are no other agreements between the parties. Any amendment or modification to this Agreement must be in writing and signed by an official with the authority to bind the Town. Such amendment or modification shall be incorporated into and made part of this Agreement.

***ARTICLE 2: Scope Of Work***

The CONTRACTOR shall furnish all materials, labor and equipment, and perform all work shown on the Contract Documents, and the CONTRACTOR agrees to do everything required by this Agreement and the Contract Documents.

***ARTICLE 3: Term Of Agreement***

(a) This Agreement shall be for a term of (1) year, commencing on Mar 30, 2017 and ending on Mar 29, 2018, subject to annual appropriation as described in Article 7, "Termination." This Agreement may be renewed in writing at the sole option of the TOWN at the same prices, terms, and conditions for up to two (2) additional one-year periods by giving notice to the Contractor at least ninety (90) days prior to the expiration date.

(b) All time limits for Milestones, if any, Substantial Completion, and completion and readiness for final payment as stated in the Contract Documents are of the essence of the Agreement. The Contract involves on-call improvements at multiple locations throughout Town. There are no specific milestones associated with this contract.

(c) The Work will be substantially completed within three hundred sixty-five (365) days after the date when the Contract Times commence to run as provided in Paragraph 2.01 of the General Conditions, and completed and ready for final payment within 425 days after the date when the Contract Times commence to run.

(c)(i) The Framingham High School Work will be substantially completed within sixty-eight (68) days after the anticipated date for the final date of school of June 19, 2017 and the anticipated day for the start of school of August 28, 2017. Note: This work cannot begin prior to the final day of school for summer 2017 and must be completed prior to start of school in fall 2017.

(d) If the CONTRACTOR fails to substantially or finally complete the work or achieve any Milestone by the date specified in the Contract Documents, or an extended completion date which is mutually agreed upon by the TOWN and the CONTRACTOR, the CONTRACTOR shall pay to the TOWN not as a penalty but as liquidated damages the sum of $1,000.00 Dollars per day for each and every calendar day beyond the date on which completion was required. This amount is fixed and agreed upon by and between the TOWN and CONTRACTOR to be the amount of damages which the TOWN would sustain, and is based upon the parties' agreed upon reasonable estimate of those actual damages likely to result from the Contractor's breach hereunder. The TOWN's right to

assess liquidated damages shall not preclude the TOWN from the exercise of any other rights to recover damages on account of the CONTRACTOR's failure to achieve substantial or final completion within the time required.

### *ARTICLE 4: The Contract Sum*

This is a **unit price** contract. The CONTRACTOR agrees to provide to the TOWN items at the specific price points listed in the CONTRACTOR'S bid submission, for the duration of the contract. The TOWN makes no guarantee to purchase any minimum or specific quantity of goods or services under the provisions of this contract.

### *ARTICLE 5: Payment*

(a) Contractor shall submit Applications for Payment in accordance with Paragraph 14.02 of the General Conditions. Applications for Payment will be processed by Engineer as provided in the General Conditions.

(b) Prior to Substantial Completion, progress payments will be made in an amount equal to the percentage indicated below but, in each case, less the aggregate of payments previously made and less such amounts as Engineer may determine or Owner may withhold, including but not limited to liquidated damages, in accordance with Article 3 of this Agreement.

1. 95% of Work completed (with the balance being retainage).

2. 95% percent of cost of materials and equipment not incorporated in the Work

but which satisfies the requirements of Paragraph 14.02.A of the General Conditions (with the balance being retainage).

(c) Upon satisfaction of the Substantial Completion procedures set forth in Paragraph 14.04 of the General Conditions, the Town shall pay an amount sufficient to increase total payments to Contractor to 99% of the Work completed, less such amounts as Engineer may determine or Owner may withhold in accordance with Article 3 of this Agreement and Paragraph 14.04 of the General Conditions.

(d) Upon final completion and acceptance of the Work and satisfaction of the procedures set forth in Paragraph 14.06 of the General Conditions, the Town shall pay the remainder of the Contract Price as recommended by Engineer as provided in Paragraph 14.07 of the General Conditions.

### *ARTICLE 6: Contractor's Representations*

In order to induce the Town to enter into this Agreement, Contractor makes the following representations:

A. Contractor has examined and carefully studied the Contract Documents and the other related data identified in the Bidding Documents.

B. Contractor has visited the Site and become familiar with and is satisfied as to the general, local, and Site conditions that may affect cost, progress, and performance of the Work.

C. Contractor is familiar with and is satisfied as to all federal, state, and local Laws and Regulations that may affect cost, progress, and performance of the Work.

D. Contractor has carefully studied all: (1) reports of explorations and tests of subsurface conditions at or contiguous to the Site and all drawings of physical conditions relating to existing surface or subsurface structures at the Site (except Underground Facilities), if any, that have been identified in the Contract Documents as containing reliable "technical data", and (2) reports and drawings of Hazardous Environmental Conditions, if any, at the Site that have been identified in the Contract Documents as containing reliable "technical data."

E. Contractor has considered information known to Contractor; information commonly known to contractors doing business in the locality of the Site; information and observations obtained from visits to the Site; the Contract Documents; and the Site-related reports and drawings identified in the Contract Documents, with respect to the effect of such information, observations, and documents on (1) the cost, progress, and performance of the Work; (2) the means, methods, techniques, sequences, and procedures of construction to be employed by Contractor, including any specific means, methods, techniques, sequences, and procedures of construction expressly required by the Contract Documents; and (3) Contractor's safety precautions and programs.

F. Based on the information and observations referred to in Paragraphs A through E above, Contractor does not consider that further examinations, investigations, explorations, tests, studies, or data are necessary for the performance of the Work at the Contract Price, within the Contract Times, and in accordance with the other terms and conditions of the Contract Documents.

G. Contractor is aware of the general nature of work to be performed by Owner and others at the Site that relates to the Work as indicated in the Contract Documents.

H. Contractor has given Owner written notice of all conflicts, errors, ambiguities, or discrepancies that Contractor has discovered in the Contract Documents, and the written resolution thereof by Owner is acceptable to Contractor.

I. The Contract Documents are generally sufficient to indicate and convey understanding of all terms and conditions for performance and furnishing of the Work.

### *ARTICLE 7: Termination*

In addition to the provisions of Article 15 of the General Conditions, the TOWN shall have the right to terminate this Agreement if funds are not appropriated or otherwise made available to support the continuation of this Agreement after the first year.

### *ARTICLE 8: Notice*

All notices required to be given under this Agreement shall be in writing and shall be effective upon receipt by hand delivery or by registered or certified mail to:

**Town of Framingham:**
Contract Administrator
Town of Framingham
Department of Public Works
110 Western Avenue
Framingham, MA 01702

**Contractor:**
Name Richard A. DeFelice
Title President
Company Newport Construction Corp.
Address 145 Temple Street
Nashua, NH 03060
Phone: 603-882-1700
Fax: 603-882-2784
E-Mail: r.defelice@newportconstruct.com

### *ARTICLE 9: Performance and Payment Bonds*

When Contractor delivers the executed counterparts of the Agreement to Owner, Contractor shall also deliver performance and payment bonds as follows, subject to the additional requirements set forth in Paragraph 5.01 of the General Conditions:

(a) The CONTRACTOR shall furnish a **100% Performance Bond** from a surety company qualified to do business under the laws of the Commonwealth of Massachusetts which is satisfactory to the TOWN in the full amount of the Contract Price and in the form attached hereto as **Exhibit A**.

(b) The CONTRACTOR shall furnish a **100% Payment Bond** from a surety company qualified to do business under the laws of the Commonwealth of Massachusetts which is satisfactory to the TOWN in the full amount of the Contract Price and in the form attached hereto as **Exhibit B**.

***ARTICLE 9.5: Certification Of Foreign Corporation***

If Contractor is a foreign corporation as defined by G.L. c. 156D, § 1.40, then when Contractor delivers the executed counterparts of the Agreement to Owner, Contractor shall also deliver a certificate of the state secretary stating that the Contractor has complied with requirements of section 15.03 of subdivision A of Part 15 of chapter 156D and the date of compliance, and further has filed all annual reports required by section 16.22 of subdivision B of Part 16 of said chapter 156D.

***ARTICLE 10: Insurance***

In addition to the requirements set forth in Article 5 of the General Conditions, Contractor and its Subcontractors, consultants, and other parties performing or furnishing any portion of the Work shall purchase and maintain insurance as follows. When Contractor delivers the executed counterparts of the Agreement to Owner, and before any Work at the Site is started, Contractor shall deliver to Owner, with copies to each additional insured identified in the Supplementary Conditions, certificates of insurance (and other evidence of insurance which Owner or any additional insured may reasonably request, including copies of any insurance policies to which such certificates of insurance relate) for each insurance policy that Contractor is required to purchase and maintain in accordance herewith.

A. Contractor and its Subcontractors, consultants, and other parties performing or furnishing any portion of the Work shall purchase and maintain such insurance as is appropriate for the Work being performed and as will provide protection from claims set forth below which may arise out of or result from such party's performance of the Work and other obligations under the Contract Documents, whether it is to be performed by Contractor, any Subcontractor or Supplier, or by anyone directly or indirectly employed by any of them to perform any of the Work, or by anyone for whose acts any of them may be liable:

    1. claims under workers' compensation, disability benefits, and other similar employee benefit acts;

    2. claims for damages because of bodily injury, occupational sickness or disease, or death of the insured's employees;

    3. claims for damages because of bodily injury, sickness or disease, or death of any person other than the insured's employees;

    4. claims for damages which are sustained:

        a. by any person as a result of an offense directly or indirectly related to the employment of such person by the insured, or

b. by any other person for any other reason;

5. claims for damages, other than to the Work itself, because of injury to or destruction of tangible property wherever located, including loss of use resulting therefrom, including explosion, collapse, and underground coverages;

6. claims for damages because of bodily injury or death of any person or property damage arising out of the ownership, maintenance, or use of any motor vehicle;

7. claims for damages relating to Contractor's obligations under this Agreement;

8. claims for damages to property written as Builder's Risk Insurance; and
9. claims for damages resulting from release of hazardous waste due to Contractor's operations.

B. The policies of insurance required by this paragraph shall:

1. with respect to insurance required by paragraphs A.3 through A.7 inclusive, and A.9, be written on an occurrence basis, include as additional insureds Owner and Engineer, and any other individuals or entities required in the Contract Documents, all of whom shall be listed as additional insureds, and include coverage for the respective officers, directors, members, partners, employees, agents, consultants, and subcontractors of each and any of all such additional insureds, and the insurance afforded to these additional insureds shall provide primary and non-contributory coverage for all claims covered thereby;

2. include at least the specific coverages and be written for not less than the liability provided as follows or required by Laws or Regulations, whichever is greater:

   a. Workers' Compensation, and related coverages under paragraphs A.1 and A.2 and in accordance with Massachusetts General Laws, Chapter 149, Section 34A:

| | |
|---|---|
| 1. State: | Statutory |
| 2. Applicable Federal (e.g., Longshoremen's) | Statutory |
| 3. Employer's Liability | $2,000,000 Each Accident<br>$2,000,000 Disease per Employee |

   b. Contractor's General Liability under paragraphs A.3 through A.6 which shall include completed operations and product liability coverages:

| | |
|---|---|
| 1. General Aggregate | $2,000,000 |
| 2. Products – Completed Operations Aggregate | $2,000,000 |
| 3. Personal and Advertising | |

| | |
|---|---|
| Injury | $1,000,000 |
| 4. Each Occurrence (Bodily Injury and Property Damage) | $1,000,000 |
| 5. Excess or Umbrella Liability | |
| General Aggregate | $5,000,000 |
| Each Occurrence | $5,000,000 |

c. Automobile Liability under paragraph A.6:

| | |
|---|---|
| 1. Bodily Injury: | |
| Each Person | $1,000,000 |
| Each Accident | $1,000,000 |
| 2. Property Damage: | |
| Each Accident | $1,000,000 |
| 3. Combined Single Limit of | $1,000,000 |

4. The policy shall include a CA 99 48 Broadened Pollution Endorsement. The Contractor, if hauling contaminants or pollutants, must adhere to Sections 29 and 30 of the Motor Carrier Act of 1980, which shall include coverage form MCS-90.

d. Property liability (Builder's risk):

1. Amount equal to insurable value of the Contract, including all structures, materials, and equipment to be built and installed.

e. The Contractual Liability coverage required by paragraph A.7 shall cover Contractor's indemnity obligations under the Agreement and provide coverage for not less than the following amounts:

| | |
|---|---|
| 1. Bodily Injury: | |
| Each Person | $2,000,000 |
| Each Accident | $2,000,000 |
| 2. Property Damage: | |
| Each Accident | $2,000,000 |
| Annual Aggregate | $2,000,000 |

f. The property insurance required by paragraph A.8 shall be written as Builder's Risk with an "All Risk" Installation Floater that shall at least include insurance for physical loss and damage to the Work, temporary buildings, falsework, and Work in transit and shall insure against at least the following perils: fire, lightning, extended coverage, theft, vandalism and malicious theft, earthquake, collapse, debris removal, demolition occasioned by enforcement of Laws and Regulations, and water damage, and be written in the completed value form. Such policy shall cover expenses incurred in the repair or replacement of any insured property (including but not limited to fees and charges of engineers and

architects) and materials and equipment in transit for incorporation into the Work or stored at the Site or at another location that was agreed to in writing by Owner prior to being incorporated into the Work, provided that such materials and equipment have been included in an Application for Payment recommended by Engineer. Such policy shall include the interests of Owner, Contractor, Subcontractors, Engineer, and Owner's and Engineer's Consultants, each of whom is deemed to have an insurable interest, and each shall be listed as an insured or additional insured.

g. The Contractor's Pollution Insurance coverage required by paragraph A.9 shall cover bodily injury and property damage resulting from liability arising out of pollution related exposures such as asbestos abatement, lead paint abatement, tank removal, removal of contaminated soil, etc. The insurance policy shall cover the liability of the Contractor during the process of removal, storage, transport and disposal of hazardous waste and contaminated soil and/or asbestos abatement. The policy shall include coverage for on-Site and off-Site bodily injury and loss of, damage to, or loss of use of property, directly or indirectly arising out of the discharge, dispersal, release or escape of smoke, vapors, soot, fumes, acids, alkalis, toxic chemicals, liquids or gas, waste materials or other irritants, contaminants or pollutants into or upon the land, the atmosphere or any water course or body of water, whether it be gradual or sudden and accidental. The policy shall also include defense and clean-up costs. The amount of coverage shall be as follows:

1. Limit of Liability:

| | |
|---|---|
| Each Occurrence | $1,000,000 |
| Aggregate | $3,000,000 |

3. contain a provision or endorsement that the coverage afforded will not be canceled, materially changed, or renewal refused until at least 30 days prior written notice has been given to Owner and Contractor and to each other additional insured identified in the Contract Documents to whom a certificate of insurance has been issued (and the certificates of insurance furnished by the Contractor pursuant to the Agreement will so provide);

4. remain in effect through final payment and at all times thereafter when Contractor may be correcting, removing, or replacing defective Work in accordance with Paragraph 13.06 or Paragraph 13.07 of the General Conditions; and

5. include completed operations coverage:

   a. Such insurance shall remain in effect for two years after final payment.

   b. Contractor shall furnish Owner and each other additional insured identified in the Contract Documents, to whom a certificate of insurance has been issued,

evidence satisfactory to Owner and any such additional insured of continuation of such insurance at final payment and one year thereafter.

### *ARTICLE 11: Indemnification*

B. To the fullest extent permitted by Laws and Regulations, Contractor shall indemnify, defend, and hold harmless Owner and Engineer and the officers, directors, members, partners, employees, agents, consultants and subcontractors of each and any of them from and against all claims, costs, losses, and damages (including but not limited to all fees and charges of engineers, architects, attorneys, and other professionals and all court or other dispute resolution costs) for or on account of or relating to any act, omission, or negligence of the Contractor, Subcontractors, or its or their agents or employees in the performance of the Work and/or their failure to comply with the terms and conditions of this Agreement. The foregoing provision shall not be deemed to be released, waived, or modified in any respect by reason of any surety or insurance provided by Contractor.

C. In any and all claims against Owner or Engineer or any of their officers, directors, members, partners, employees, agents, consultants, or subcontractors by any employee (or the survivor or personal representative of such employee) of Contractor, any Subcontractor, any Supplier, or any individual or entity directly or indirectly employed by any of them to perform any of the Work, or anyone for whose acts any of them may be liable, the indemnification obligation under this Agreement shall not be limited in any way by any limitation on the amount or type of damages, compensation, or benefits payable by or for Contractor or any such Subcontractor, Supplier, or other individual or entity under workers' compensation acts, disability benefit acts, or other employee benefit acts.

### *ARTICLE 12: Mandatory Ethics Training*

A summary of the Conflict of Interest Law is attached hereto as Exhibit C, and must be distributed to all key employees of the Contractor whose services are specifically required by name, implication or understanding of the parties. Pursuant to Chapter 28 of the Acts of 2009, as amended, all key employees must complete online ethics training on the State Ethics Commission's website, www.mass.gov/ethics. Within thirty (30) days of the date of this Agreement, each key employee must provide to the Town Clerk (with a copy to the Department of Public Works) a signed acknowledgement of receipt of the summary of the Conflict of Interest Law, in the form attached hereto as Exhibit D, and a certificate of completion of the online training which must be printed at the completion of the training. In the event that the term of this agreement extends for more than two years, all continuously employed key employees shall repeat the online training and provide the Town with a new certificate of completion within ninety (90) before or ninety (90) days after the two-year anniversary of the date of this Agreement. Any new key employee who becomes employed by the Consultant after the date of this Agreement and whose services are specifically required by this Agreement must complete the online training and provide the Town with a certificate of completion within thirty (30) days of the date on which his or her services commence pursuant to this Agreement. Satisfaction of

these requirements is the sole responsibility of the Consultant and its key employees, and the town shall have no liability for the Consultant's or its key employees' failure to meet these requirements.

### *ARTICLE 13: Affirmative Action and Equal Employment Opportunity*

Contractor shall use reasonable efforts to utilize and subcontract with qualified Minority Enterprise (MBE) and Women Business Enterprise (WBE) firms for participation on this Agreement. Utilization of MBE and WBE firms shall be in accordance with certification criteria established by the Supplier Diversity Office (SDO) of the Massachusetts Division of Occupational Safety or other certification sources acceptable to Town. Contractor shall comply with the requirements of G.L. c. 151 governing non-discrimination in employment; Town of Framingham General Bylaws Article I, Section 4; and the Affirmative Action & Equal Employment Opportunity Requirements attached hereto as **Exhibit E.**

### *ARTICLE 14: Miscellaneous*

B. This Agreement shall be binding upon the TOWN and the CONTRACTOR and the partners, successors, heirs, executors, administrators, assigns and legal representatives of the TOWN and the CONTRACTOR. Neither the TOWN nor the CONTRACTOR shall assign, sublet or transfer any interest in this Agreement without the written consent of each other, and such consent shall not be unreasonably withheld.

C. Terms used in this Agreement will have the meanings stated in the General Conditions and the Supplementary Conditions.

**D.** Any provision or part of the Contract Documents held to be void or unenforceable under any Law or Regulation shall be deemed stricken, and all remaining provisions shall continue to be valid and binding upon Owner and Contractor, who agree that the Contract Documents shall be reformed to replace such stricken provision or part thereof with a valid and enforceable provision that comes as close as possible to expressing the intention of the stricken provision.

THE REMAINDER OF THIS PAGE IS LEFT BLANK INTENTIONALLY

**IN WITNESS WHEREOF** the parties hereto have executed copies of this Agreement the day and year first above written. *

*If a Corporation, attach to each signed copy of this Contract an attested copy of the vote of the Corporation on authorizing the said signing and sealing.

**CONTRACTOR: Newport Construction Corp.**

BY: _____

Title: Richard A. DeFelice, President

Dated 03/24/17

Corporate Seal:

William R. Sedewitz

**William R. Sedewitz, P.E.**
**Chief Engineer**
**Department of Public Works**

Dated: 3/30/17

***Approved As To Form***

Jennifer Pratt (alp)

**Jennifer A. Pratt**
**Chief Procurement Officer**

Dated: 3/30/17

Christopher J. Petrini

**Christopher J. Petrini**
**Town Counsel**

Dated: 3/30/17

***Approved as to Funds Availability will be confirmed by issuance of official Town of Framingham purchase order(s).***

Richard G. Howarth

**Richard G. Howarth**
**Town Accountant**

Dated: 3/30/17

**Funding Source:**
Requisition Number: N/A On-Call Unit Price Contract
Org: _____ Obj: _____ Project: _____

**Procurement Source:**
Bid # PW-345
State Contract # _____
MHEC Contract # _____
Other _____

**PW345 - ADDENDUM ONE (1)**
**ON CALL ROAD REHABILITATION**

**This PW345 Official Addendum One Price Sheet replaces the Price Sheet in the original PW345 Bid Document and must be submitted with any PW345 bid.**

*4. PRICE SHEET - OFFICIAL*

**Instructions:**

1. **Insert Unit Bid Price**
2. **Multiply the Estimated Quantity by the Unit Price and insert the product for Total Price**
3. **Add all products in the Total Price Column and insert the sum for the Total Estimated Price for Bid Evaluation Purposes**

**In the event of a discrepancy between a Unit Bid Price and Total Price, the Unit Price shall control.**

**Bidder Name:** Newport Construction Corp

| Item No. | Estimated Quantity | Unit | Description | (1) Unit Price | (2) Total Price |
|---|---|---|---|---|---|
| 101 | 1 | A | Clearing and Grubbing | $ 1,500.00 | $ 1,500.00 |
| 102.5 | 20 | EA | Roadside Tree Protection | $ 300.00 | $ 6,000.00 |
| 120.1 | 7,300 | CY | Unclassified Excavation | $ 0.01 | $ 73.00 |
| 129 | 47,200 | SY | Hot Mix Asphalt Pavement Milling | $ 6.00 | $ 283,200.00 |
| 129.1 | 12 | DAY | Hot Mix Asphalt Pavement Milling Trench Restoration | $ 6,000.00 | $ 72,000.00 |
| 141 | 100 | CY | Class A Trench Excavation | $ 1.00 | $ 100.00 |
| 142 | 500 | CY | Class B Trench Excavation | $ 1.00 | $ 500.00 |
| 144 | 15 | CY | Class B Rock Excavation | $ 25.00 | $ 375.00 |
| 145.99 | 150 | FT | Abandon Existing Pipe (All Sizes) | $ 5.00 | $ 750.00 |
| 146 | 10 | EA | Drainage Structure Removed | $ 125.00 | $ 1,250.00 |
| 150 | 3,000 | CY | Ordinary Borrow | $ 1.00 | $ 3,000.00 |

| Item No. | Estimated Quantity | Unit | Description | (1) Unit Price | (2) Total Price |
|---|---|---|---|---|---|
| 151 | 5,800 | CY | Gravel Borrow | $ 1.00 | $ 5,800.00 |
| 153 | 12 | CY | Controlled Density Fill - Excavatable | $ 135.00 | $ 1,620.00 |
| 156 | 1,200 | TON | Crushed Stone | $ 16.00 | $ 19,200.00 |
| 170 | 10,000 | SY | Fine Grading and Compacting | $ 1.00 | $ 10,000.00 |
| 180.901 | 1 | LS | Prepare Soil and Waste Management Plan (SWMP) | $ 16,557.00 | $ 16,557.00 |
| 180.902 | 6 | EA | Testing of Soils | $ 1,200.00 | $ 7,200.00 |
| 180.903 | 750 | TON | Management, Hauling and Disposal of Impacted Soil Less Than RCS-1 (Class A-2) | $ 20.00 | $ 15,000.00 |
| 180.904 | 1,200 | TON | Management, Hauling and Disposal of Material Suitable for Daily Cover in an Unlined Landfill (Class B-1) | $ 25.00 | $ 30,000.00 |
| 180.905 | 250 | TON | Management, Hauling and Disposal of Material Suitable for Daily Cover in an Lined Landfill (Class B-2) | $ 35.00 | $ 8,750.00 |
| 180.906 | 100 | TON | Management, Hauling and Disposal of Material for Asphalt Batch Plant In-State (Class B-3) | $ 35.00 | $ 3,500.00 |
| 180.907 | 1 | LS | Prepare Asbestos Work Plan | $ 5,000.00 | $ 5,000.00 |
| 180.908 | 100 | LB | Management, Hauling and Disposal of Non-Friable Asbestos Cement Pipe | $ 10.00 | $ 1,000.00 |
| 180.909 | 100 | TON | Management, Hauling and Disposal of Friable Asbestos Cement Pipe Fragments and Soil Impacted by Friable Asbestos Cement Pipe Fragments | $ 50.00 | $ 5,000.00 |
| 183.1 | 1,000 | GAL | Treatment of Contaminated Groundwater | $ 3.00 | $ 3,000.00 |
| 183.2 | 500 | LB | Disposal of Granular Activated Carbon | $ 5.00 | $ 2,500.00 |

| Item No. | Estimated Quantity | Unit | Description | (1) Unit Price | (2) Total Price |
|---|---|---|---|---|---|
| 201.5 | 12 | EA | Catch Basin - Municipal Standard | $ 7,000.00 | $ 84,000.00 |
| 202.01 | 5 | EA | Manhole – Municipal Standard | $ 7,000.00 | $ 35,000.00 |
| 204.3 | 2 | EA | Gutter Inlet – Municipal Standard | $ 5,000.00 | $ 10,000.00 |
| 205.91 | 40 | EA | Precast Concrete Leaching Galley – (4'x4'x4') | $ 1,200.00 | $ 48,000.00 |
| 205.92 | 1 | EA | Precast Concrete Leaching Galley – (4'x4'x3') | $ 1,500.00 | $ 1,500.00 |
| 205.93 | 1 | EA | Precast Concrete Leaching Drywell – (6' Dia.) | $ 2,500.00 | $ 2,500.00 |
| 205.94 | 1 | EA | Precast Concrete Leaching Drywell – (8' Dia.) | $ 2,500.00 | $ 2,500.00 |
| 205.95 | - | Allowance | Underground Infiltration Chambers | $ 50,000 | $ 50,000.00 |
| 205.96 | - | Allowance | Water Quality Units | $ 40,000 | $ 40,000.00 |
| 220 | 250 | EA | Drainage Structure Adjusted | $ 250.00 | $ 62,500.00 |
| 220.2 | 400 | FT | Drainage Structure Rebuilt | $ 225.00 | $ 90,000.00 |
| 220.3 | 2 | EA | Drainage Structure Change in Type | $ 500.00 | $ 1,000.00 |
| 220.5 | 2 | EA | Drainage Structure Remodeled | $ 300.00 | $ 600.00 |
| 220.7 | 50 | EA | Sanitary Structure Adjusted | $ 250.00 | $ 12,500.00 |
| 220.8 | 10 | EA | Sanitary Structure Remodeled | $ 300.00 | $ 3,000.00 |
| 222.3 | 50 | EA | Frame and Grate (or Cover) Municipal Standard | $ 800.00 | $ 40,000.00 |
| 227.3 | 50 | CY | Removal of Drainage Structure Sediment | $ 250.00 | $ 12,500.00 |
| 227.31 | 600 | FT | Removal of Drainage Pipe Sediment | $ 15.00 | $ 9,000.00 |
| 238.08 | 12 | FT | 8 Inch Ductile Iron Pipe | $ 125.00 | $ 1,500.00 |
| 238.12 | 12 | FT | 12 Inch Ductile Iron Pipe | $ 125.00 | $ 1,500.00 |
| 238.16 | 12 | FT | 16 Inch Ductile Iron Pipe | $ 125.00 | $ 1,500.00 |

| Item No. | Estimated Quantity | Unit | Description | (1) Unit Price | (2) Total Price |
|---|---|---|---|---|---|
| 241.12 | 520 | FT | 12 Inch Reinforced Concrete Pipe | $ 125.00 | $ 65,000.00 |
| 241.18 | 16 | FT | 18 Inch Reinforced Concrete Pipe | $ 125.00 | $ 2,000.00 |
| 241.24 | 16 | FT | 24 Inch Reinforced Concrete Pipe | $ 125.00 | $ 2,000.00 |
| 242.12 | 16 | EA | 12 Inch Reinforced Concrete Pipe Flared End | $ 500.00 | $ 8,000.00 |
| 242.18 | 2 | EA | 18 Inch Reinforced Concrete Pipe Flared End | $ 500.00 | $ 1,000.00 |
| 242.24 | 2 | EA | 24 Inch Reinforced Concrete Pipe Flared End | $ 600.00 | $ 1,200.00 |
| 244.12 | 16 | FT | 12 Inch Reinforced Concrete Pipe Class V | $ 125.00 | $ 2,000.00 |
| 250.04 | 100 | FT | 4 Inch Polyvinyl Chloride Pipe | $ 100.00 | $ 10,000.00 |
| 250.06 | 100 | FT | 6 Inch Polyvinyl Chloride Pipe | $ 100.00 | $ 10,000.00 |
| 252.12 | 100 | FT | 12 Inch Corrugate Plastic (Polyethylene) Pipe | $ 125.00 | $ 12,500.00 |
| 252.18 | 100 | FT | 18 Inch Corrugate Plastic (Polyethylene) Pipe | $ 75.00 | $ 7,500.00 |
| 252.24 | 100 | FT | 24 Inch Corrugate Plastic (Polyethylene) Pipe | $ 75.00 | $ 7,500.00 |
| 269.08 | 500 | FT | 8 Inch Slot-Perforated Corrugated Plastic Pipe (Subdrain) | $ 50.00 | $ 25,000.00 |
| 357.9 | 12 | EA | Gate Box, Service Box, Curb Stop Installation Only | $ 250.00 | $ 3,000.00 |
| 358 | 100 | EA | Gate Box Adjusted | $ 200.00 | $ 20,000.00 |
| 381.3 | 20 | EA | Service Box Adjusted | $ 200.00 | $ 4,000.00 |
| 384.2 | 20 | EA | Curb Stop Adjusted | $ 200.00 | $ 4,000.00 |
| 403 | 11,400 | SY | Reclaimed Pavement for Base Course | $ 2.00 | $ 22,800.00 |
| 403.1 | 10 | TON | Crushed Stone for Blending | $ 20.00 | $ 200.00 |
| 431 | 12 | SY | High-Early-Strength Concrete for Base Course | $ 40.00 | $ 480.00 |

| Item No. | Estimated Quantity | Unit | Description | (1) Unit Price | (2) Total Price |
|---|---|---|---|---|---|
| 440 | 500 | LB | Calcium Chloride for Roadway Dust Control | $ 0.10 | $ 50.00 |
| 443 | 100 | MGL | Water for Roadway Dust Control | $ 0.10 | $ 10.00 |
| 452 | 50 | GAL | Asphalt Emulsion for Tack Coat | $ 15.00 | $ 750.00 |
| 453 | 200 | FT | HMA Joint Sealant | $ 1.00 | $ 200.00 |
| 455.23 | 7,200 | TON | Superpave Surface Course – 12.5 (SSC-12.5) | $ 90.00 | $ 648,000.00 |
| 455.31 | 1,900 | TON | Superpave Intermediate Course – 12.5 (SIC-12.5) | $ 90.00 | $ 171,000.00 |
| 455.42 | 1,200 | TON | Superpave Base Course – 37.5 (SBC-37.5) | $ 70.00 | $ 84,000.00 |
| 460 | 1,000 | TON | HMA - MassDOT | $ 100.00 | $ 100,000.00 |
| 460.88 | N/A | TON | Liquid Asphalt Adjustment | N/A Leave Blank | N/A Leave Blank |
| 470 | 20 | TON | Hot Mix Asphalt Berm | $ 200.00 | $ 4,000.00 |
| 472 | 250 | TON | Hot Mix Asphalt for Miscellaneous Work | $ 150.00 | $ 37,500.00 |
| 482.3 | 20,000 | FT | Sawing Asphalt Pavement | $ 0.01 | $ 200.00 |
| 504 | 15,000 | FT | Granite Curb Type VA-4 - Straight | $ 15.00 | $ 225,000.00 |
| 504.1 | 1,880 | FT | Granite Curb Type VA-4 - Curved | $ 17.00 | $ 31,960.00 |
| 504.2 | 10 | EA | Granite Curb Type VA-4 – Splayed End | $ 300.00 | $ 3,000.00 |
| 509 | 400 | FT | Granite Curb Transition for Wheelchair Ramps - Straight | $ 55.00 | $ 22,000.00 |
| 509.1 | 300 | FT | Granite Curb Transition for Wheelchair Ramps - Curved | $ 55.00 | $ 16,500.00 |
| 511.1 | 800 | FT | Granite Edging Type SB - Straight | $ 12.00 | $ 9,600.00 |
| 512.1 | 100 | FT | Granite Edging Type SB (Radius 10 Feet or Less) | $ 15.00 | $ 1,500.00 |
| 514 | 50 | EA | Granite Curb Inlet - Straight | $ 250.00 | $ 12,500.00 |

| Item No. | Estimated Quantity | Unit | Description | (1) Unit Price | (2) Total Price |
|---|---|---|---|---|---|
| 515 | 50 | EA | Granite Curb Inlet - Curved | $ 250.00 | $ 12,500.00 |
| 580 | 12,000 | FT | Curb Removed and Reset | $ 18.00 | $ 216,000.00 |
| 581 | 12 | EA | Curb Inlet Removed and Reset | $ 75.00 | $ 900.00 |
| 582 | 25 | EA | Curb Corner Removed and Reset | $ 50.00 | $ 1,250.00 |
| 583 | 2,000 | FT | Edging Removed and Reset | $ 8.00 | $ 16,000.00 |
| 590 | 100 | FT | Curb Removed and Stacked | $ 30.00 | $ 3,000.00 |
| 622.1 | 200 | FT | Single W Beam Highway Guard (Single Faced/Wood Posts) | $ 20.00 | $ 4,000.00 |
| 622.3 | 100 | FT | Single W Beam Highway Guard - Curved (Single Faced/Wood Posts) | $ 21.00 | $ 2,100.00 |
| 622.4 | 2 | EA | Single W Beam Highway Guard Buried End (Single Faced/Wood Posts) | $ 500.00 | $ 1,000.00 |
| 627.1 | 2 | EA | Steel W Beam Terminal Section (Single Faced) | $ 500.00 | $ 1,000.00 |
| 627.8 | 2 | EA | Steel Beam Highway Guard (Tangent End Treatment) | $ 750.00 | $ 1,500.00 |
| 644.048 | 100 | FT | 48 Inch Chain Link Fence (STW) (Line Post Option) | $ 26.00 | $ 2,600.00 |
| 644.072 | 100 | FT | 72 Inch Chain Link Fence (STW) (Line Post Option) | $ 36.00 | $ 3,600.00 |
| 645.048 | 950 | FT | 48 Inch Chain Link Fence (Pipe top Rail) (Line Post Option) | $ 15.00 | $ 14,250.00 |
| 645.072 | 100 | FT | 72 Inch Chain Link Fence (Pipe top Rail) (Line Post Option) | $ 22.00 | $ 2,200.00 |
| 657 | 200 | FT | Temporary Fence | $ 5.00 | $ 1,000.00 |
| 670 | 100 | FT | Fence Removed and Reset | $ 10.00 | $ 1,000.00 |
| 685 | 75 | CY | Stone Masonry Wall in Cement Mortar | $ 174.00 | $ 13,050.00 |

| Item No. | Estimated Quantity | Unit | Description | (1) Unit Price | (2) Total Price |
|---|---|---|---|---|---|
| 685.991 | 75 | SY | Modular Block Retaining Wall | $ 70.00 | $ 5,250.00 |
| 685.992 | 260 | SY | Modular Block Retaining Wall with Geogrid | $ 50.00 | $ 13,000.00 |
| 690.1 | 75 | CY | Stone Masonry Wall Removed and Rebuilt Dry | $ 175.00 | $ 13,125.00 |
| 697 | 2,000 | FT | Sedimentation Fence | $ 2.00 | $ 4,000.00 |
| 697.1 | 50 | EA | Silt Sack | $ 200.00 | $ 10,000.00 |
| 697.9 | 2,000 | FT | Straw Wattles | $ 2.00 | $ 4,000.00 |
| 701 | 9,600 | SY | Cement Concrete Sidewalk | $ 75.00 | $ 720,000.00 |
| 701.1 | 1,200 | SY | Cement Concrete Sidewalk At Driveway | $ 80.00 | $ 96,000.00 |
| 701.2 | 900 | SY | Cement Concrete Wheelchair Ramp | $ 150.00 | $ 135,000.00 |
| 702 | 650 | TON | Hot Mix Asphalt Walk Surface | $ 200.00 | $ 130,000.00 |
| 703 | 550 | TON | Hot Mix Asphalt Driveway | $ 200.00 | $ 110,000.00 |
| 706 | 20 | SY | Brick Walk | $ 100.00 | $ 2,000.00 |
| 706.1 | 20 | SY | Brick Walk Removed and Relaid | $ 100.00 | $ 2,000.00 |
| 711 | 4 | EA | Bound Removed and Reset | $ 200.00 | $ 800.00 |
| 751.9 | 200 | CY | Loam Borrow and Sced | $ 20.00 | $ 4,000.00 |
| 751.91 | 40 | CY | Loam Borrow and Seed Placement Only | $ 50.00 | $ 2,000.00 |
| 804.42 | 2,000 | FT | 4 Inch Electrical Conduit Type NM – Plastic –(UL) - Double | $ 50.00 | $ 100,000.00 |
| 811.991 | 10 | EA | Communications Pull Box 36 x 36 Inches | $ 3,000.00 | $ 30,000.00 |
| 819.831 | 5,000 | FT | Wire Loop Installed in Roadway | $ 13.00 | $ 65,000.00 |
| 824.01 | 4 | EA | Rectangular Rapid Flashing Beacon | $ 20,000.00 | $ 80,000.00 |

| Item No. | Estimated Quantity | Unit | Description | (1) Unit Price | (2) Total Price |
|---|---|---|---|---|---|
| 832 | 480 | SF | Warning – Regulatory and Route Markers Alum. Panel (Type A) | $ 25.00 | $ 12,000.00 |
| 847.1 | 30 | EA | Sign Support with One Breakaway Post - Steel | $ 125.00 | $ 3,750.00 |
| 850.41 | 1,200 | HR | Roadway Flagger | $ 1.00 | $ 1,200.00 |
| 852 | 480 | SF | Safety Signing for Construction Traffic | $ 15.00 | $ 7,200.00 |
| 854.1 | 500 | FT | Pavement Marking Removal | $ 5.00 | $ 2,500.00 |
| 854.91 | 50,000 | FT | Temporary Pavement Markings – 4 In. (Painted) | $ 0.65 | $ 32,500.00 |
| 860.91 | 2,000 | FT | 4 Inch Reflectorized White Line (Epoxy Resin) | $ 1.50 | $ 3,000.00 |
| 860.92 | 17,000 | FT | 6 Inch Reflectorized White Line (Epoxy Resin) | $ 2.00 | $ 34,000.00 |
| 860.93 | 2,000 | FT | 12 Inch Reflectorized White Line (Epoxy Resin) | $ 2.00 | $ 4,000.00 |
| 861.91 | 1,000 | FT | 4 Inch Reflectorized Yellow Line (Epoxy Resin) | $ 1.50 | $ 1,500.00 |
| 861.92 | 26,000 | FT | 6 Inch Reflectorized Yellow Line (Epoxy Resin) | $ 2.00 | $ 52,000.00 |
| 861.93 | 2,000 | FT | 12 Inch Reflectorized Yellow Line (Epoxy Resin) | $ 3.00 | $ 6,000.00 |
| 861.94 | 100 | SF | Pavement Arrows and Legends (Epoxy Resin) | $ 50.00 | $ 5,000.00 |
| 864.21 | 75 | EA | Raised Pavement Marker One-Way White | $ 10.00 | $ 750.00 |
| 864.25 | 75 | EA | Raised Pavement Marker Two-Way Yellow/Yellow | $ 20.00 | $ 1,500.00 |
| 864.31 | 75 | EA | Slotted Pavement Marker One-Way White | $ 25.00 | $ 1,875.00 |
| 864.35 | 75 | EA | Slotted Pavement Marker Two-Way Yellow/Yellow | $ 25.00 | $ 1,875.00 |
| 903 | 48 | CY | 3000 PSI 1.5" 470 Cement Concrete | $ 200.00 | $ 9,600.00 |
| 903.9 | 60 | CY | Stamped and Colored Cement Concrete | $ 400.00 | $ 24,000.00 |
| 910 | 200 | LB | Steel Reinforcement for Structures | $ 5.00 | $ 1,000.00 |

| Item No. | Estimated Quantity | Unit | Description | (1) Unit Price | (2) Total Price |
|---|---|---|---|---|---|
| 999.1 | 1,200 | HR | Uniformed Police Details | $ 46.00 | $ 55,200.00 |
| 999.2 | - | - | Price Adjustment for Portland Cement Concrete Mixes | N/A Leave Blank | N/A Leave Blank |
| 999.3 | - | - | Price Adjustment for Diesel Fuel and Gasoline | N/A Leave Blank | N/A Leave Blank |
| 999.4 | - | - | Price Adjustment for Structural Steel and Reinforcing Steel | N/A Leave Blank | N/A Leave Blank |
| 999.5 | - | Allowance | Emergency Repair Work | $50,000 | $ 50,000.00 |
| 999.6 | - | Allowance | Equipment and Operator | $50,000 | $ 50,000.00 |

| (3) Total Estimated Contract Price for Bid Evaluation Purposes : | $ 4,771,500.00 |
|---|---|

Four million Seven hundred Seventy one thousand five hundred dollars and no Cents

Total Estimated Contract Price for Bid Evaluation Purposes in WORDS

**Name of Bidder:** Newport Construction Corp.

MASSACHUSETTS DEPARTMENT OF TRANSPORTATION HIGHWAY DIVISION PREQUALIFICATION IS REQUIRED TO BID ON THIS PROJECT. THE MASSACHUSETTS DEPARTMENT OF TRANSPORTATION (MASSDOT) HAS PROVIDED A LIST TO THE FRAMINGHAM PUBLIC WORKS DEPARTMENT OF APPROVED ELIGIBLE BIDDERS FOR THIS PROJECT. ONLY THOSE CONTRACTORS ON THIS LIST WILL RECEIVE OFFICIAL BID DOCUMENTS.

# FY2019 Requested: Deferred to FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | FPS/B&G/2019/C | **Budget Year:** | 2019 |
| **Project Title:** | Asbestos Abatement / Replace Deteriorated Floor Tiles – Pipe Insulation & Main Corridor Areas @ Pott | **Scenario:** | Main 2019 |
| **Asset Type:** | | **Budget Status:** | Department Request |
| **Department:** | C3-971 - Building & Grounds Department | **Regions:** | |
| **Project Type:** | School Building Structure | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | Jul 2, 2018 | **Project Partner:** | |
| **Est. Completion Date:** | Aug 24, 2018 | | |

## Description:

The Potter Road School is one of several older schools that contain asbestos that we have identified. Ceilings, floors and pipe coverings above the ceilings are the next area of priority that should have asbestos containing materials removed.

## Comments:

In an ongoing effort to address, the Asbestos Hazard Emergency Response Action (AHERA) and comply with D.E.P. (Department of Environmental Protection) requirements, the District performs six-month inspections for all suspected asbestos containing materials. Three year reports are filed through a contracted Industrial Hygienist firm in order for the District to be in full compliance with the D.E.P. AHERA guidelines for Public Schools.

## Justification:

Because all asbestos must be removed at some point from all schools, even if the building is to be demolished, take a pro-active approach and address large common areas of floor tile in corridors etc. that show signs of wear or curled edges. Even though there is no eminent danger of the material becoming airborne or “friable” we want to remove it before it becomes dangerous.

Please note that the majority of ACM removal and replacement listed must be completed during the months of July and August when students are not in the schools. Requested amounts reflect the amount of construction and installation work that can be completed in this short time frame.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 460,000 | 0 | 460,000 |
| | **460,000** | **0** | **460,000** |

**12. Asbestos Abatement / Replace Deteriorated Floor Tiles – Pipe Insulation & Main Corridor Areas @ Potter Road**

**FY19:**

In an ongoing effort to address, the Asbestos Hazard Emergency Response Action (AHERA) and comply with D.E.P. (Department of Environmental Protection) requirements, the District performs six-month inspections for all suspected asbestos containing materials. Three year reports are filed through a contracted Industrial Hygienist firm in order for the District to be in full compliance with the D.E.P. AHERA guidelines for Public Schools.

Any item containing asbestos must be monitored and if found to be in poor condition or in a state where asbestos particulates may become airborne then it must be repaired or removed.

Because all asbestos must be removed at some point from all schools, even if the building is to be demolished, take a pro-active approach and address large common areas of floor tile in corridors etc. that show signs of wear or curled edges. Even though there is no eminent danger of the material becoming airborne or "friable" we want to remove it before it becomes dangerous.

This latest request is a representation of planning ahead and securing the removed material before it becomes dangerous.

The Potter Road School is one of several older schools that contain asbestos that we have identified. Ceilings, floors and pipe coverings above the ceilings are the next area of priority that should have asbestos containing materials removed.

**$460,000**

***** Please note that this abatement work must be completed during the months of July through August when students are not in the schools. Requested amount reflects the amount of abatement construction and installation work that can be completed in this short time frame.**

UEC universal environmental consultants

September 11, 2017

Mr. Matt Torti
Framingham Public Schools
31 Flagg Drive
Framingham, MA 01702

Reference: Asbestos Abatement Project
Potter Road School

Dear Mr. Torti:

Thank you for providing Universal Environmental Consultants (UEC) the opportunity to serve your environmental needs.

The following are estimated costs for the asbestos abatement and replacement project at the Potter Road School. The estimated costs below are for accessible asbestos containing materials (ACM) only and do not include ACM that might be found hidden in walls or above plaster ceilings.

| **Location** | **Abatement Cost** | **Replacement Cost** |
|---|---|---|
| Vinyl Asbestos Tiles/Carpets = 34,000 SF | $136,000.00 | $170,000.00 |
| Floor Prep/Moisture System = 34,000 SF | | $ 48,000.00 |
| Floor Waxing = 34,000 SF | | $ 12,000.00 |
| Hard Joint Insulation = 1,500 LF | $ 30,000.00 | $ 30,000.00 |
| Containments and Cleaning | $ 9,500.00 | |

Total Cost: $ 435,500.00

Estimated Fee for Design, Monitoring and Air Sampling: $ 24,500.00

**Grand Total: $ 460,000.00**

Please do not hesitate to call our office if you have any questions.

Very truly yours,

Universal Environmental Consultants

_____
Ammar M. Dieb
President

UEC:\Various Info\Potter Road School Cost Estimates 2017.DOC

# FY2019 Requested: Deferred beyond FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | FIRE/Fire/2019/C | **Budget Year:** | 2019 |
| **Project Title:** | Safety/Training Officer Response Vehicle - Fire Apparatus Asset Replacement | **Scenario:** | Main 2019 |
| **Asset Type:** | FIRE TRUCKS | **Budget Status:** | Department Request |
| **Department:** | 38-220 - Fire | **Regions:** | |
| **Project Type:** | Public Safety Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2018 | **Manager:** | |
| **Start Date:** | Jul 2, 2018 | **Project Partner:** | |
| **Est. Completion Date:** | Feb 28, 2019 | | |

**Description:**

Replace Safety/Training Officer pick-up

**Comments:**

**Justification:**

The national fire response standards of the National Fire Protection Association require that the Incident Commander establish a Safety Officer for all significant incidents. The FFD policies dictate that the Deputy Chief in charge of the Training Division respond to such incidents to perform the duties of Safety Officer. The response truck used for these purposes is a 2006 Ford F250 pickup with high mileage and accelerating maintenance costs. This Project would replace the current Safety/Training Officer truck and repurpose the current truck within the Fire Department fleet to replace a fleet vehicle with the highest mileage/hours. The Safety/Training Officer pick-up is also used to get safety equipment to significant incidents and transport training equipment used at remote drill locations. The cost of this project includes the cost of a new radio in addition to the vehicle, and the emergency lighting, cargo protection cap and department identification decal package.

**Description:**

**Comments:**

**Project Forecast**

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 53,516 | 0 | 53,516 |
| | **53,516** | **0** | **53,516** |

# QUOTE

**Framingham, City of**

Car - 2 (F350)

| | | | |
|---|---|---|---|
| Contact Name: | Ken Cassidy, Mechanic | Date: | November 22, 2017 |
| Company/Dept: | Fire Dept. | Valid Through: | 60 days* |
| Street Address: | 10 Loring Drive | Customer #: | 12020 |
| City, State, Zip: | Framingham, MA 01702 | Contract: | GBPC - Various |
| Phone: | 508.532.5945 (desk) | Sales Rep: | Shawn Daoust |
| E-Mail: | ksc@framinghamma.gov | | |

| LINE REFERENCE | LINE DESCRIPTION | UNIT PRICE | QTY. | EXTENDED PRICE |
|---|---|---|---|---|
| X2B / 148" | Ford F250 Super Cab Pickup - 4WD - 6.75' bed | $ 26,700.00 | 1 | $ 26,700.00 |
| 600A | XL Trim (Base) | | 1 | $ - |
| ESTIMATE | Exterior Color - Vermillion Red Special Order Paint "F1" | $ 700.00 | 1 | $ 700.00 |
| 996 / 44S | 6.2L V8 Gasoline Engine with Auto Transmission | | 1 | $ - |
| 1S | 40/20/40 Split CLOTH Bench Seat & HD Vinyl Flooring | $ 305.55 | 1 | $ 305.55 |
| | Factory Trailer Tow Hitch with 4 & 7 way trailer plugs | | 1 | $ - |
| | Spare Tire, Wheel & Jack | | 1 | $ - |
| 17S | STX Appearance Package - Cruise, 18" Alloys, Chrome, CD Player | $ 1,639.30 | 1 | $ 1,639.30 |
| 91M | SYNC (factory bluetooth) | $ 354.05 | 1 | $ 354.05 |
| TDX | All Terrain Tires | $ 160.05 | 1 | $ 160.05 |
| 90L (Ext. cab) | Power Equipment Group (Windows, Mirror Glass, Locks) | $ 887.55 | 1 | $ 887.55 |
| 473 | Snow Plow Prep. Package | $ 179.45 | 1 | $ 179.45 |
| | Electronic Shift 4WD | | 1 | $ - |
| 18B | Factory Cab Steps | $ 431.65 | 1 | $ 431.65 |
| 76S | Remote Start System | $ 242.50 | 1 | $ 242.50 |
| 61N | Front & Rear Wheel Well Liners | $ 315.25 | 1 | $ 315.25 |
| 61S / 62S | Front & Rear Mud Flaps | $ 126.10 | 1 | $ 126.10 |
| | Factory Rear View Camera (will display in mirror) | | 1 | $ - |
| X3E | Limited Slip Axle | $ 378.30 | 1 | $ 378.30 |
| 52B | Factory Electronic Trailer Brake Controller | $ 261.90 | 1 | $ 261.90 |
| 85S | Factory Spray in Bed Liner | $ 523.80 | 1 | $ 523.80 |
| | **GBPC Ford Contract Total :** | | | **$ 33,205.45** |
| | | | | |
| | MHQ Graphics Package C | $ 695.00 | 1 | $ 695.00 |
| | MHQ Graphics Package A (use for Chevron) | $ 395.00 | 1 | $ 395.00 |
| | Whelen M4RC LED Warning Lights (1 pair) - front PB | $ 380.00 | 1 | $ 380.00 |
| % off MSRP | Whelen M4BKT1 L Bracket for front PB lights | $ 13.00 | 2 | $ 26.00 |
| | Whelen M4RC LED Warning Lights (1 per side) PB sides | $ 380.00 | 1 | $ 380.00 |
| | Setina PB400 Aluminum PushBumper | $ 420.00 | 1 | $ 420.00 |
| | Wig-Wag Headlight Flasher | $ 75.00 | 1 | $ 75.00 |
| | Whelen M7RC LED Warning Lights (1 / side) in fender emblem | $ 435.00 | 1 | $ 435.00 |
| | Whelen Liberty II DUO Lightbar w/ CenCom Siren/Switch | $ 2,935.00 | 1 | $ 2,935.00 |
| | Whelen LED GTT Emitter/Opticom (built into lightbar) | $ 1,375.00 | 1 | $ 1,375.00 |
| w/r | Whelen Vertex LED Hide-a-ways (2 pair) - tail | $ 445.00 | 1 | $ 445.00 |
| 1 B, 1 R | Whelen M4*C LED Warning Lights (1 pair) rear cap near tail lights | $ 380.00 | 1 | $ 380.00 |
| 1 B, 1 R | Whelen ION Series LED Warning Lights (1 pair) rear cap header | $ 365.00 | 1 | $ 365.00 |
| on PB | Whelen SA315P Composite Siren Speaker | $ 200.00 | 1 | $ 200.00 |

| | | | | |
|---|---|---|---|---|
| | Havis C2410 Communications Console w/Trackmount | $ 450.00 | 1 | $ 450.00 |
| | Havis Dual Internal Cup Holder(s) for Console | $ 45.00 | 2 | $ 90.00 |
| | Havis Side Mount Arm Rest(2) - CARM102 | $ 65.00 | 2 | $ 130.00 |
| % off MSRP | Havis CAP0995 Open Accessory Pocket | $ 78.46 | 1 | $ 78.46 |
| | Magnetic Mic. Clip(s) | $ 41.00 | 3 | $ 123.00 |
| | Central Wiring System with 12v Timer Built In | $ 815.00 | 1 | $ 815.00 |
| | LED Rope Lighting inside Cap | $ 540.00 | 1 | $ 540.00 |
| | DCC Aluminum Cap with Single Lift Up Hatch (no glass) | $ 2,595.00 | 1 | $ 2,595.00 |
| | Aluminum Toolbox(es) | $ 795.00 | 1 | $ 795.00 |
| | BedSlide Sliding Storage Platform (1,000 # Minimum) | $ 1,695.00 | 1 | $ 1,695.00 |
| % off MSRP | Aftermarket Back up Camera to integrate into OEM Camera System | $ 319.87 | 1 | $ 319.87 |
| | Install Customer Supplied 2-way Radio(s) | $ 195.00 | 2 | $ 390.00 |
| | | | | $ - |
| | **GBPC Aftermarket Equipment Contract Total :** | | | **$ 16,527.33** |
| | | | | |
| | | | **TOTAL:** | **$ 49,732.78** |
| | | | **Trade :** | $ - |
| | | | **Net Investment :** | **$ 49,732.78** |

## TERMS AND CONDITIONS

*This quote is valid for 60 days from the date of quote. Any purchase orders or approved quotes received outside of the 60 day quote period may be subject to price adjustments. By signing this quote, the customer is agreeing to pay, in full, for all items listed above. Any requests for changes, modifications, replacements, removals or additional items may be subject to additional fees and/or adjusted delivery dates.

M.G.L c. 30B applies to the procurement of all commodities quoted. Contract items have been collectively purchased pursuant to M.G.L c 30B sec 1c and M.G.L c.7 sec 22B. The government body is responsible to determine the applicibility of M.G.L. c30B to off contract items, but not limited to, off contract items that have already been properly procured under M.G.L. c30B sec 1c and M.G.L. c7 sec 22A (purchases from a vendor on contract with the Commonwealth), other contracts procured under M.G.L. c30B sec 1c and M.G.L. c. 30B contract between the vendor and the jurisdiction. All off contract items must be proccured under M.G.L. c. 30B.

The terms and conditions stated herein and the provisions of any agreement between MHQ and Buyer, if applicable, shall constitute the complete and only terms and conditions applicable to any and all purchases by Buyer from MHQ. Any additional and/or different terms and/or conditions printed anywhere including on, or with, Buyer's order shall be inapplicable in regard to any purchase by Buyer from MHQ.

## ORDER ACKNOWLEDGEMENT

**By signing this document you are agreeing to the above terms and conditions of this order from MHQ, Inc.**

**x**

**PRINT NAME**

**x**

**TITLE**

**x** **x**

**SIGNATURE** **DATE**

Quote provided by Shawn Daoust, Account Manager at MHQ - Public Safety Team
(508) 573-2625 or sdaoust@mhq.com

**Quote Number:** **QU0000419100**
**Effective:** 19 OCT 2017
**Effective To:** 18 DEC 2017

**Bill-To:**
FRAMINGHAM FIRE DEPT
10 LORING DR
FRAMINGHAM, MA 01702
United States

**Ultimate Destination:**
FRAMINGHAM FIRE DEPT
10 LORING DR
FRAMINGHAM, MA 01702
United States

Attention:
**Name:** Michael Dutcher
**Phone:** 508 532 5930

Sales Contact:
**Name:** George Voorhees
**Email:** gvoor@bellatlantic.net
**Phone:** 5088811503

**Contract Number:** ITT57 MA STATE
**Freight terms:** FOB Destination
**Payment terms:** Net 45

| Item | Quantity | Nomenclature | Description | List price | Your price | Extended Price |
|---|---|---|---|---|---|---|
| 1 | 1 | M25SSS9PW1AN | APX6500 UHF R2 MID POWER | $4,094.00 | $3,142.88 | $3,142.88 |
| 1a | 1 | W22BA | ADD: STD PALM MICROPHONE APEX | | | |
| 1b | 1 | G442AJ | ADD: O5 CONTROL HEAD | | | |
| 1c | 1 | G67BC | ADD: REMOTE MOUNT MID POWER | | | |
| 1d | 1 | G24AX | INT: 3 YEAR SERVICE FROM THE START LITE | | | |
| 1e | 1 | G444AE | ADD: APX CONTROL HEAD SOFTWARE | - | - | - |
| 1f | 1 | G490AD | ADD: ANT 1/4 WAVE 470-512 MHZ | | | |
| 1g | 1 | B18CR | ADD: AUXILARY SPKR 7.5 WATT | | | |
| 1h | 1 | GA00235AA | ADD: NO GPS ANTENNA NEEDED | - | - | - |
| 1i | 1 | Q811BS | DIGITAL CONVENTIONAL | | | |
| 2 | 640 | SVC03SVC0124D | SUBSCRIBER INSTALL - CUST LOCATION | $1.00 | $1.00 | $640.00 |
| (Notes)Field Installation and programming | | | | | | |

**Total Quote in USD** $3,782.88

1. Terms subject to ITT57 as modified by the clarifications and terms/conditions. For a full list of terms/conditions please contact you Motorola representative.

2. PO Issued to Motorola Solutions Inc. must:

>Be a valid Purchase Order (PO)/Contract/Notice to Proceed on Company Letterhead. Note: Purchase Requisitions cannot be accepted
>Have a PO Number/Contract Number & Date
>Identify "Motorola Solutions Inc." as the Vendor
>Have Payment Terms or Contract Number
>Be issued in the Legal Entity's Name
>Include a Bill-To Address with a Contact Name and Phone Number
>Include a Ship-To Address with a Contact Name and Phone Number
>Include an Ultimate Address (only if different than the Ship-To)
>Be Greater than or Equal to the Value of the Order
>Be in a Non-Editable Format

>Identify Tax Exemption Status (where applicable)
>Include a Signature (as Required)

3. Quotes are exclusive of all installation and programming charges (unless expressly stated) and all applicable taxes.

4. Prices quoted are valid for thirty(30) days from the date of this quote.

5. Unless otherwise stated, payment will be due within forty five day of invoice. Invoicing will occur concurrently with shipping. MOTOROLA DISCLAIMS ALL OTHER WARRANTIES WITH RESPECT TO THE ORDERED PRODUCTS, EXPRESS OR IMPLIED INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. MOTOROLA'S TOTAL LIABILITY ARISING FROM THE ORDERED PRODUCTS WILL BE LIMITED TO THE PURCHASE PRICE OF THE PRODUCTS WITH RESPECT TO WHICH LOSSES OR DAMAGES ARE CLAIMED. IN NO EVENT WILL MOTOROLA BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES.

# FY2019 Requested: Deferred beyond FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | FPS/B&G/2019/M | **Budget Year:** | 2019 |
| **Project Title:** | Vehicle Replacement - Utility Van | **Scenario:** | Main |
| **Asset Type:** | TRANSFER TRUCK | **Budget Status:** | Department Request |
| **Department:** | 09-971 - Building & Grounds Department | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2018 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

**Description:**

**Comments:**

**Justification:**

**Description:**

**Comments:**

**Project Forecast**

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 35,000 | 0 | 35,000 |
| | **35,000** | **0** | **35,000** |

# FY2019 Requested: Deferred beyond FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Highway/2019/K | **Budget Year:** | 2019 |
| **Project Title:** | Arlington Street Area Infrastructure Phases 1 and 1B - Design | **Scenario:** | Main 2019 |
| **Asset Type:** | STORM DRAIN | **Budget Status:** | Department Request |
| **Department:** | C4-411 - Engineering | **Regions:** | |
| **Project Type:** | Stormwater Improvement | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This funding request is for neighborhood-wide concept design, final design of a first phase of construction, and 60% design of a second phase, which will begin neighborhood and property owner consultation; refine, validate and document project criteria; and identify detailed construction costs and next steps.

## Comments:

In addition to addressing the condition of infrastructure, the repairs, replacements and improvements will enhance this residential and small businesses neighborhood immediately south of Downtown.

## Justification:

Most infrastructure in this neighborhood is in a state of disrepair or inadequacy, including many water mains that are over 100 years old and have fire flow concerns, frequent flooding due to very little drainage infrastructure, with many roads and sidewalks in very poor condition, and without disability accessibility. This project proposes to address these needs in an affordable multiphase implementation that will also reduce disruption to residents, businesses and through-traffic. This project was deferred from the FY2018 request.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 520,000 | 0 | 520,000 |
| | **520,000** | **0** | **520,000** |

# FY2019 Requested: Deferred beyond FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Highway/2019/L | **Budget Year:** | 2019 |
| **Project Title:** | Saxonville Levee Stormwater Pump Station Rehabilitation - Construction | **Scenario:** | Main 2019 |
| **Asset Type:** | STORM DRAIN | **Budget Status:** | Department Request |
| **Department:** | C4-411 - Engineering | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This funding will perform construction of the equipment and building components rehabilitation at the Saxonville Stormwater Pump Station (SWPS) to maintain compliance with the federal Levee Safety Program.

## Comments:

## Justification:

The most recent inspection of this facility by the U.S. Army Corps of Engineers (USACE) resulted in a rating of “Minimally Acceptable”, with this drainage pumping station critical to the prevention of flooding of properties within Saxonville. Not addressing the identified deficiencies will lead to more costly issues and repairs in the future, and could make Framingham ineligible for future FEMA support and federal funding during emergency flood events. This project was deferred from the FY2018 requests.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 490,000 | 0 | 490,000 |
| | **490,000** | **0** | **490,000** |

November 3, 2017
W-P Project No. 13764A

Ms. Vonnie Reis, PE, Director of Capital Projects
Department of Public Works
110 Western Avenue
Framingham, MA 01702

Subject: Saxonville Levee Stormwater Pump Station Rehabilitation Project
FY2019 Funding Letter

Dear Ms. Reis:

The Saxonville Levee Stormwater Pump Station (SSWPS) Rehabilitation Project involves the upgrade and replacement of the station's equipment and ancillary systems. The SSWPS was originally constructed within an easement near Watson Place in Framingham, Massachusetts, as part of an Army Corps of Engineers flood control project in the late 1970's to protect the low-lying Saxonville area from flooding from the Sudbury River.

The station is now in need of upgrades to replace aging equipment and code deficiencies to assure its readiness in the event of future flooding. Key assets slated for upgrades include the diesel driven engines and fuel tank, pumps, piping, gates, electrical & HVAC systems, and ancillary components.

Specifically, the upgrades will address the following:

- Replacement of existing roof.
- Demolition and replacement of existing fuel tank with a new double-walled fuel tank.
- Improvements to restore the reliability of the existing diesel driven engines, including new clutch, radiators, belts, and hoses.
- Upgrades to the ventilation system to provide six (6) air changes per hour (when station is occupied) as required by code.
- Replacement of existing manual louvers with automatic louvers.
- Replacement and upgrades to all existing electrical components, such as lighting, switches, receptacles, and main distribution equipment.
- Replace conduit and wiring from the pump station to the levee gate.


40 Shattuck Road, Suite 305
Andover, MA 01810
Phone: 978.416.8000 | Fax: 978.470.3558

Based on the most recent estimate of probable cost, this letter confirms the need for $490,000 in funding for the construction of the Saxonville Stormwater Levee Pump Station Rehabilitation Project.

Sincerely,
WRIGHT-PIERCE

Michael Stein, PE
Project Manager
michael.stein@wright-pierce.com

cc: Robert Williamson, Wright-Pierce
Marc Moccio, Wright-Pierce

# FY2019 Requested: $4,500,000 Deferred beyond FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Highway/2019/D | **Budget Year:** | 2019 |
| **Project Title:** | Annual Various Road Improvements - 2019 | **Scenario:** | Main 2019 |
| **Asset Type:** | STREETS & ROADS | **Budget Status:** | Department Request |
| **Department:** | C4-422 - Highway | **Regions:** | |
| **Project Type:** | Roadway Infrastructure | **Active:** | Yes |
| **Year Identified:** | 2016 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

The Annual Road Program utilizes several different maintenance applications to ensure the appropriate road condition.
Roadway Resurfacing includes mill and Hot Mix Asphalt (HMA) overlay, which is the process of grinding off the top layer of existing asphalt pavement by means of a large milling machine and replacing this layer with at least two layers of a new HMA riding surface. A leveling course may be applied prior to the final riding surface to resolve various roadway defects, ensure proper drainage, and provide adequate rideability throughout the duration of the project. Drainage improvements are made if needed before paving. Curbing is re-laid or replaced if they are in poor condition or reset for adequate reveal. Sidewalk reconstruction includes ADA handicap ramp upgrades. Signage and traffic marking are upgraded. Tentative roads scheduled for roadway resurfacing are Fenwick Street, Wickford Road, Sturgis Road, Normandy Road, Sanger Street, Thompson Street, William Welch Way and Speen Street.

The Department also utilizes several different Roadway Surface Treatment applications including:

Rubber chip seal is typically applied to neighborhood roads with low to moderate volume traffic volumes. The treatment is used to provide a flexible, waterproof wearing surface that seals the existing pavement and is highly resistant to cracking. Installation includes a HMA shim course to redefine the profile of the road, provide structural stability, and improve rideability. All utility castings are raised to finish grade, driveway aprons are adjusted as needed, and a rubber chip seal topcoat is applied. Signage and traffic markings are upgraded. The annual road program is scheduled to include: Ridgefield Drive, Leonard Road, Lohnes Road, Blackthorn Road, Bantry Road, Rosslare Road, Tara Road, Poskus Road, Hastings Street, Sunset Drive, Pitt Road, Cavanaugh Road, Fairbanks Road, Fairbanks Way, Highland Court, Murray Road, Magnolia Street, Michaud Drive, Childs Circle, Woodside Cottage Way, Gil Leonard Road, Wyndstone Way, Highgate Road, and Crestwood Drive.

Rubber chip seal can also be used in conjunction with other roadway treatments as a Stress Absorbing Membrane Interlayer (SAMI). The SAMI seals the roadway and extends its service life. Bonded Wearing Course (or Novachip) can be applied after a SAMI and includes a thin layer of a polymer modified asphalt emulsion sprayed onto the road surface followed immediately by an overlay of HMA. Castings are raised to grade and traffic markings are restored. Tentative roads scheduled for this surface treatment application are Salem End Road (partial), Parmentor Road, and Nixon Road.

Mill and fill operations are also performed by the Department in conjunction with specialized contracted equipment to address surface defects. Mill and fill can be used as a stand-alone roadway maintenance method or can be used in preparation for surface treatment products.

## Justification:

Without substantial ongoing improvements, the roadway system will deteriorate rapidly, and cost more to raise back up to a State of Good Repair.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 7,500,000 | 0 | 7,500,000 |
| | **7,500,000** | **0** | **7,500,000** |

# FY2019 Requested: Deferred beyond FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Highway/2019/M | **Budget Year:** | 2019 |
| **Project Title:** | Annual Traffic Calming - 2019 | **Scenario:** | Main 2019 |
| **Asset Type:** | STREETS & ROADS | **Budget Status:** | Department Request |
| **Department:** | C4-422 - Highway | **Regions:** | |
| **Project Type:** | Roadway Infrastructure | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

**Description:**

Annual Appropriation for Traffic Calming Improvements.

**Comments:**

**Justification:**

Necessary infrastructure improvements.

**Description:**

**Comments:**

**Project Forecast**

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 100,000 | 0 | 100,000 |
| | **100,000** | **0** | **100,000** |

# FY2019 Requested: Deferred beyond FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Sanitation/2019/A | **Budget Year:** | 2019 |
| **Project Title:** | Replace 2008 Sanitation Division Support Truck, #505 | **Scenario:** | Main 2019 |
| **Asset Type:** | PICK UP TRUCKS | **Budget Status:** | Department Request |
| **Department:** | C7-422 - Highway | **Regions:** | |
| **Project Type:** | Public Works Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

Replace 2008 Sanitation Division Support Truck, #505

## Comments:

Service performance, pride of service and community support are all emphasized by DPW, with vehicle cleanliness an important expression of those, and a responsibility of DPW staff.

## Justification:

All of the existing vehicles being replaced will have exceeded 10 years in service when replaced (and sold), and nearly all are near to or over 100,000 miles or run-hours equivalent. Industry and Framingham DPW experience indicates that above those thresholds maintenance increases substantially to assure service reliability, as do major repairs, none of which provide a return on investment, and they are not sustainable with the current DPW facility and staffing. In addition to daily service for the various Divisions, they all are used for the Department's snow and ice management program, with many also used to respond to community events and emergencies. Snow plowing is particularly destructive to vehicles.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 68,393 | 0 | 68,393 |
| | **68,393** | **0** | **68,393** |

# QUOTE

**CUSTOMER**

Contact Name: Town of Framingham
Company/Dept: Department of Public Works
Street Address: 100 Western Ave.
City, State, Zip: Framingham, MA 01702
Phone: 508-532-6070
E-Mail: fjd@framinghamma.gov

Date: 10/30/2017
Valid for: 60 Days*
Customer #: 10141
Contract: GBPC/BAPERN 2015
Sales Rep: GAK

| CONTRACT LINE REFERENCE | LINE DESCRIPTION | UNIT PRICE | QTY. | EXTENDED PRICE |
|---|---|---|---|---|
| | | | | |
| F5H | 2018 F550 Chassis 4X4 Regular Cab 145" wb, 60" CA 18,000# GVWR | | | |
| | V10 gasoline engine | | | |
| SP101 | Factory Special Paint, W6695F Yellow | | | |
| | Four Wheel Drive with manual locking hubs | | | |
| | Automatic Transmission, AM/FM radio with digital clock | | | |
| | HD vinyl bench seat, HD vinyl flooring, and spare tire | | | |
| | Factory upfitter switches, spare tire on wheel | | | |
| 43C | 110V/400 Watt Power Outlet (1) | | | |
| 473 | Factory Snow Plow Prep | | | |
| X8L | 4:88 limited slip rear axle | | | |
| 62R | Transmission PTO provision | | | |
| 52B | Trailer brake controller | | | |
| 18B | Black molded running boards factory installed RC | | | |
| TGB | 225/70RX19.5 BSW Traction Tires, Front & Rear | | | |
| 68U | 19,000 Lb. GVWR Payload Upgrade, 60" CA Gas only | | | |
| 2.05 | Diamond/Meyer 9' snow plow w/ poly foil and steel bolt on edge | | | |
| 6.02 | Heavy duty 12'6" platform body with stake sides | | | |
| 6.08 | Steel bulkhead for platform body | | | |
| 6.13 | Diamond plate steel floor in lieu of wood | | | |
| 7.12 | Thieman 2,000# electric hydraulic aluminum lift gate- direct lift | | | |
| | Upgrade tailgate with rollers on slides | | | |
| | Upgrade tailgate with light kit | | | |
| 7.01 | 30" stainless steel under body toolbox | | | |
| 7.02 | Poly rear fenders, frame mounted (Light Duty Chassis) | | | |
| 7.07 | Reinforced plate mounted ball and pintle hook combination | | | |
| 7.05 | Trailer plug, wired | | | |
| 1.16 | Code 3 Electronic back up alarm # D450H | | | |
| N/A | Driver's door mounted incandescent spotlight | | | |
| N/A | Mobile Radio | | | |
| N/A | Emergency/safety lights | | | |
| | | | | |
| | | | TAX: | |
| | | | **TOTAL:** | **$68,393.00** |

**TERMS AND CONDITIONS**

**ORDER ACKNOWLEDGEMENT**

**By signing this document you are agreeing to the above terms and conditions of this order from MHQ, Inc.**

# FY2019 Requested: Deferred beyond FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Highway/2019/B | **Budget Year:** | 2019 |
| **Project Title:** | Replace 1996 Sidewalk Tractor, #462 | **Scenario:** | Main 2019 |
| **Asset Type:** | SIDEWALK PLOW/SNOWBLOWER | **Budget Status:** | Department Request |
| **Department:** | C7-422 - Highway | **Regions:** | |
| **Project Type:** | Public Works Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This funding request is for the replacement of a 1996 Trackless sidewalk tractor, #462, which is needed for sidewalk clearing throughout Town, with schedule priority around schools.

## Comments:

Service performance, pride of service and community support are all emphasized by DPW, with vehicle cleanliness an important expression of those, and a responsibility of DPW staff.

## Justification:

The existing equipment has exceeded its anticipated service life, and is used for the Department's snow and ice management program. This equipment was deferred from the FY2018 request.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 192,420 | 0 | 192,420 |
| | **192,420** | **0** | **192,420** |

# Team Eagle Inc .

141 Sanborn Rd , Tilton , New Hampshire, 03276, U.S.A .


November 2, 2017

Attention: Mr. Fred Davies
Town of Framingham
Department of Public Works
100 Western Avenue
Framingham, MA 01702
508-328-1796
fjd@framinghamma .gov

Dear Mr. Davies ,

Thank you for giving Team Eagle the opportunity to provide budget pricing for the Multihog MXC120 -a multi-season, multi -purpose utility vehicle. Please see below for pricing information .

Multihog MXC 120 $192,420

120HP tier 4 engine
- 7716Jb front axle capacity
- 9920Ib rear axle capacity
- 63db interior noise level for operator comfort and safety

51' Snowquip Snow Blower

5' Strait Plow

5' V-Plow

Mobile Radio

# FY2019 Requested: Deferred beyond FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Highway/2019/C | **Budget Year:** | 2019 |
| **Project Title:** | Replace Highway Dump Truck, #412 | **Scenario:** | Main 2019 |
| **Asset Type:** | DUMP TRUCKS | **Budget Status:** | Department Request |
| **Department:** | C7-422 - Highway | **Regions:** | |
| **Project Type:** | Public Works Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This funding request is for the replacement of a 2007 dump truck, #412.

## Comments:

Service performance, pride of service and community support are all emphasized by DPW, with vehicle cleanliness an important expression of those, and a responsibility of DPW staff.

## Justification:

All of the existing vehicles being replaced will have exceeded 10 years in service when replaced (and sold), and nearly all are near to or over 100,000 miles or run-hours equivalent. Industry and Framingham DPW experience indicates that above those thresholds maintenance increases substantially to assure service reliability, as do major repairs, none of which provide a return on investment, and they are not sustainable with the current DPW facility and staffing. In addition to daily service for the various Divisions, they all are used for the Department's snow and ice management program, with many also used to respond to community events and emergencies. Snow plowing is particularly destructive to vehicles.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 72,153 | 0 | 72,153 |
| | **72,153** | **0** | **72,153** |

## Project Details 2019

| Object | Description | | Total Amount |
|---|---|---|---|
| **Expense** | | | |
| 34225006-58530 | Equipment | | 72,153 |
| | | **Total Expense:** | **72,153** |

## Related Projects

## Operating Budget Impact

| Budget Year | Exp (Rev) | FTE Impact |
|---|---|---|

# FY2019 Requested: Deferred beyond FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Sanitation/2019/C | **Budget Year:** | 2019 |
| **Project Title:** | RDC Replacement – Design & Construction | **Scenario:** | Main 2019 |
| **Asset Type:** | BUILDING NEW | **Budget Status:** | Department Request |
| **Department:** | C4-433 - Sanitation | **Regions:** | |
| **Project Type:** | Public Works Non-Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

**Description:**

This funding will provide for the design of the demolition of the remaining incinerator building, and the design and construction of a new solid waste operations building.

**Comments:**

**Justification:**

The former incinerator building is in disrepair, and a best value sanitation operations support facility will be designed to meet needs, including equipment protection.

**Description:**

**Comments:**

**Project Forecast**

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 3,900,000 | 0 | 3,900,000 |
| | **3,900,000** | **0** | **3,900,000** |

CELEBRATING 35 YEARS

November 07, 2017

Mr. Daniel S. Nau
Director of Highway and Solid Waste Management
Town of Framingham
100 Western Avenue
Framingham, MA 01072

**Re: RDC – Demolition Design & Construction of new Solid Waste Operations Building & Corrective Actions Alternative Analysis (CAAA) for Dudley Road Landfill Closure**

Dear Mr. Nau:

This letter confirms the need for $90,000 from the General Fund for the Landfill CAAA Study, and $3,900,000 from the General Fund for the RDC, as described below.

This funding will provide for design services related to the demolition of the former Mt. Wayte Avenue Incinerator Building, construction of a new Solid Waste Operations Building, and the Corrective Action Alternatives Analysis (CAAA) necessary to meet MassDEP requirements for formal closure of the associated Dudley Road Landfill. The former incinerator building is in a severe state of disrepair, and a "best value" sanitation operations support facility will be designed to meet City needs, including equipment protection. In addition, the next phase of the formal landfill closure process (CAAA) stipulated in MassDEP Solid Waste Regulations will be conducted. Failure to close the landfill in accordance with those Regulations could subject the City to fines, potentially dating back to cessation of landfill operations.

Key assets under this project include a new Solid Waste Operations Building and formal closure of the former Dudley Road Landfill.

We trust this information meets your current needs. Please call me with any questions.

Respectfully yours,
**BETA GROUP INC.**

Alan D. Hanscom, LSP
Vice President

Cc: John Rogers, Director of Project Development and Right of Way Acquisition
Kristine Wheeler, Program Administrator and Operations Dispatcher

BETA GROUP, INC.
315 Norwood Park South, 2nd Floor, Norwood, MA 02062
P: 781.255.1982 | F: 781.255.1974 | W: www.BETA-Inc.com

# FY2019 Requested: Deferred beyond FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | PARK/ParkRec/2019/C | **Budget Year:** | 2019 |
| **Project Title:** | F450 4x4 Chip Body Truck | **Scenario:** | Main 2019 |
| **Asset Type:** | PICK UP TRUCKS | **Budget Status:** | Department Request |
| **Department:** | C7-650 - Parks & Recreation | **Regions:** | |
| **Project Type:** | Parks Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2011 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

These funds will be used to purchase a F450 Chip Body Truck to replace a 2000 Ford F450 4x4 Chip Body Truck with 43,495 miles, equating to 65,243 engine miles.

## Comments:

## Justification:

The Parks Maintenance Department has a limited amount of vehicles within its fleet to support its operational demands. This vehicle, listed within our fleet as Truck 16, is a F450 Chip Body Truck used to transport staff and support tree removal/maintenance operations on a daily basis.

The vehicle has sustained major rust damage to its frame, necessitating a full body replacement within the past five years. Currently, this vehicle has number of mechanical issues that will require repair to remain operational within fleet. These include a leaking and failing oil pan and leaking rear main engine seal, both requiring replacement. In addition to these issues, the vehicle will also require the following repairs to remain in operation:

• Replacement of both sets of rear springs;
• Replacement of ball joints;
• Replacement of shifter cable and assembly;
• Replacement of rusted, leaking oil pan and rear main engine seal that requires removal of the engine and transmission;
• Replacement of shocks;
• Replacement of tie-rod ends;

After 18 years of operational service, the overall physical and mechanical condition of Truck 16 is significantly degraded, requiring replacement.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 78,230 | 0 | 78,230 |
| | **78,230** | **0** | **78,230** |

| 2018 F450 CHIPPER PICKUP TRUCK | |
|---|---|
| Estimate from MHQ, October 2017 | $71,118.00 |
| **Sub Total** | |
| 10% Estimated Cost Escalation for FY19 Contract | $7,111.80 |
| | |
| **Total** | **$78,229.80** |

Price per quote Greg Keith at MHQ
* Price Escalation due to anticipated 2018 contract

# Framingham
# Parks and Recreation Department

**475 Union Avenue · 508 532 5960**

## Memorandum

**From the desk of Donald Capen**

November 4, 2017

**RE: Capital Budget Vehicle Replacement – 2000 Ford F450 4x4 Chip Body Truck**

Chris,

As requested, the following is a description of the current issues with the 2000 Ford F450 4x4 Regular Chip Body Truck. Currently, this vehicle has 43,495 miles on the odometer.

Due to the age of this vehicle and current condition, it is utilized minimally on a daily basis. Current issues requiring attention, labor and expense are:

- Replacement of both sets of rear springs;
- Replacement of ball joints;
- Replacement of shifter cable and assembly;
- Replacement of rusted, leaking oil pan and rear main engine seal that requires removal of the engine and transmission;
- Replacement of shocks;
- Replacement of tie-rod ends;

Currently, this vehicle has number of mechanical issues that will require repair to remain operational within fleet. These include a leaking and failing oil pan and leaking rear main engine seal, both requiring replacement.

After 18 years of operational service, the overall physical and mechanical condition of the vehicle is significantly degraded. Based on an overall assessment of the vehicle, I believe it has reached its useful life expectancy and would recommend replacement.

Regards,

Donald Capen
Mechanic

PARKS
TOWN OF FRAMINGHAM, MA
& RECREATION

MHQ
VEHICLES ■ EQUIPMENT ■ GEAR

# QUOTE

## CUSTOMER

| | | | |
|---|---|---|---|
| Contact Name: | Town of Framingham | Date: | 10/31/2017 |
| Company/Dept | Parks Department | Valid for: | 60 Days* |
| Street Address: | 475 Union Ave | Customer #: | 10142 |
| City, State, Zip: | Framingham, MA 01702 | Contract: | GBPC/BAPERN 2015 |
| Phone: | 508-532-5960 | Sales Rep: | GAK |
| E-Mail: | cam@framinghamma.gov | | |

| CONTRACT LINE REFERENCE | LINE DESCRIPTION | UNIT PRICE | QTY. | EXTENDED PRICE |
|---|---|---|---|---|
| | | | | $0.00 |
| F4H | 2018 F450 Chassis 4X4 Regular Cab 145"WB, 60"CA, 16,000 GVWR | $35,000.00 | 1 | $35,000.00 |
| | SVO Color: Green Gem | $623.00 | 1 | $623.00 |
| 99T | 6.7 Liter Power Stroke diesel engine | $8,618.00 | 1 | $8,618.00 |
| | 4:10 Limited slip axle | $349.00 | 1 | $349.00 |
| TGB | 225/70RX19.5 BSW Traction Tires, Front & Rear | $208.00 | 1 | $208.00 |
| 473 | Snowplow prep package | $179.00 | 1 | $179.00 |
| 41H | Engine block heater | $87.00 | 1 | $87.00 |
| 62R | Transmission PTO provision | $271.00 | 1 | $271.00 |
| 98R | Operator commanded diesel regeneration | $242.00 | 1 | $242.00 |
| 213 | Electronic shift on the fly four wheel drive | $179.00 | 1 | $179.00 |
| 52B | Trailer brake controller | $261.00 | 1 | $261.00 |
| 18B | Black Molded Running Boards, Crew Cab | $431.00 | 1 | $431.00 |
| | 6-Speed Automatic Transmission | included | | |
| | HD vinyl bench seat, HD vinyl flooring, Air conditioning and spare tire | included | | |
| | AM/FM radio with digital clock & four upfitter switches | included | | |
| 1.09 | Whelen Super LED D.O.T. (3) light warning system , model DOT3702A | $1,745.00 | 1 | $1,745.00 |
| 3.09 | Whelen (2) LED Vertex hideaway system, model # VTX609-2 | $235.00 | 1 | $235.00 |
| 5.43 | 9' enclosed chipper body (56" tall) | $14,495.00 | 1 | $14,495.00 |
| N/A | Increase body height to 72" with upper door for use with leaf vac | $3,130.00 | 1 | $3,130.00 |
| 4.03 | Transmission PTO driven central hydraulic system | $4,395.00 | 1 | $4,395.00 |
| 7.07 | Reinforced plate mounted ball and pintle hook combo | $495.00 | 1 | $495.00 |
| 7.05 | Trailer plug, wired | $175.00 | 1 | $175.00 |
| 8.08 | Motorola CDM1250, 64 channel, Alpha display, 45 Watt, VHF High Band front mount radio frequency range136-174 MHz model # AAM25KKD9AA2 | | 1 | |
| | | | | |
| | | | TAX: | |
| | | | TOTAL: | $71,118.00 |

## TERMS AND CONDITIONS

*This quote is valid for 60 days from the date of quote. Any purchase orders or approved quotes received outside of the 60 day quote period will be subject to price adjustments. By signing this quote, the customer is agreeing to pay, in full, for all items listed above. Any requests for changes, modifications, replacements, removals or additional items may be subject to additional fees and/or adjusted delivery dates.

M.G.L c. 30B applies to the procurement of all commodities quoted. Contract items have been collectively purchased pursuant to M.G.L c 30B sec 1c and M.G.L c.7 sec 22B. The government body is responsible to determine the applicibility of M.G.L. c30B to off contract items, but not limited to, off contract items that have already been properly procured under M.G.L. c30B sec 1c and M.G.L. c7 sec 22A (purchases from a vendor on contract with the Commonwealth), other contracts procured under M.G.L. c30B sec 1c and M.G.L. c. 30B contract between the vendor and the jurisdiction. All off contract items must be proccured under M.G.L. c. 30B.

The terms and conditions stated herein and the provisions of any agreement between MHQ and Buyer, if applicable, shall constitute the complete and only terms and conditions applicable to any and all purchases by Buyer from MHQ. Any additional and/or different terms and/or conditions printed anywhere including on, or with, Buyer's order shall be inapplicable in regard to any purchase by Buyer from MHQ.

## ORDER ACKNOWLEDGEMENT

By signing this document you are agreeing to the above terms and conditions of this order from MHQ, Inc.

x

PRINT NAME

x

TITLE

x

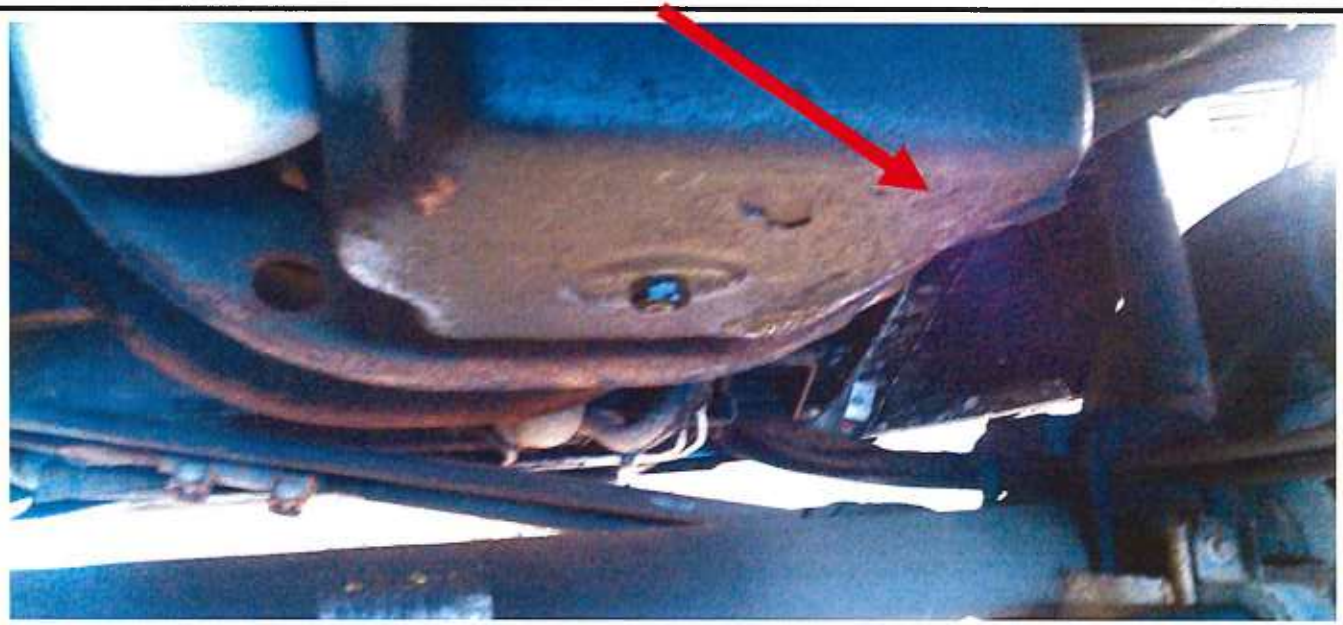
SIGNATURE

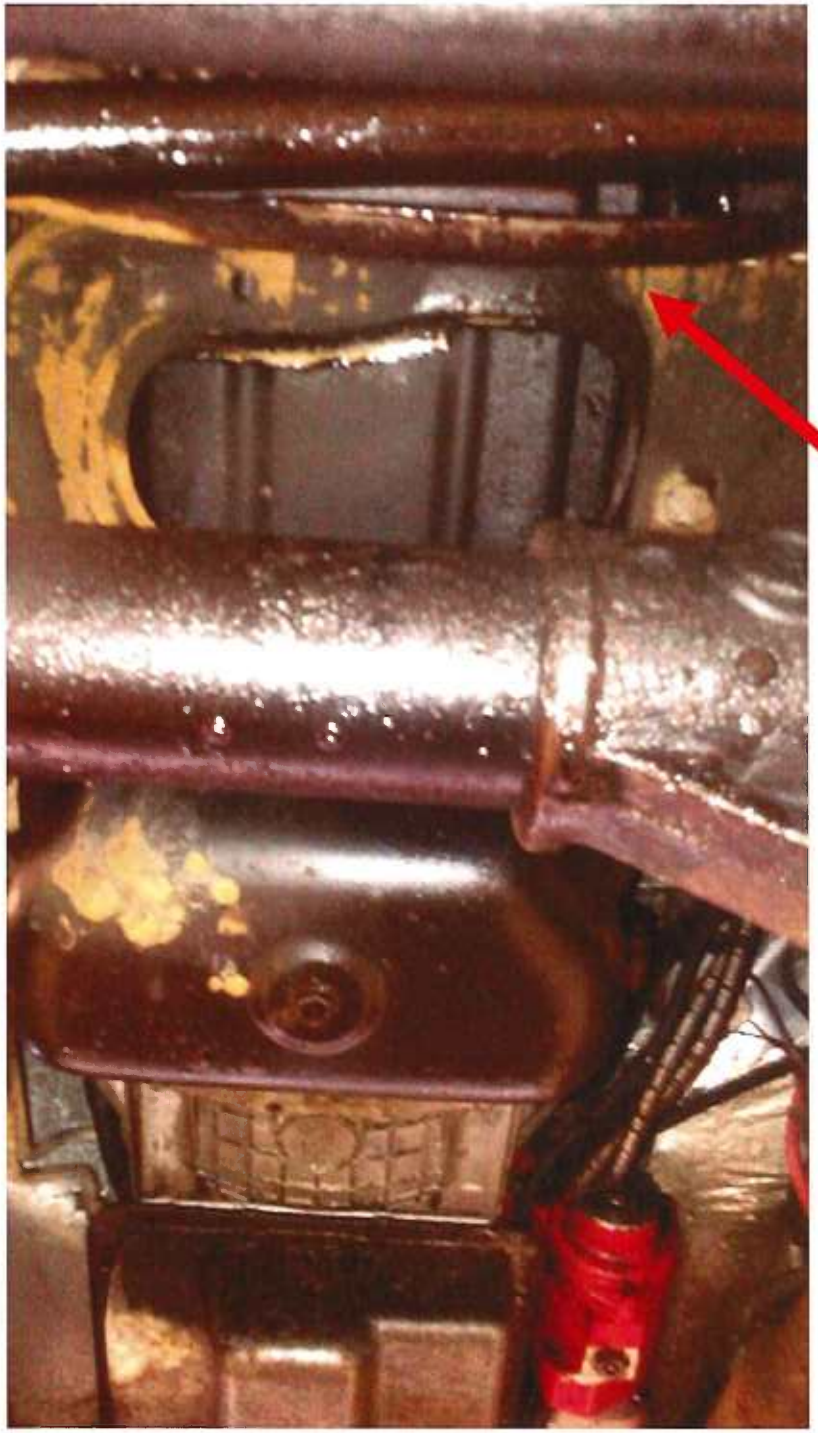
Quote provided by Greg Keith, Key Accounts Manager at MHQ
(508) 954-2225 or gkeith@mhq.com

# 2000 F450 Chip Body

Choose FRAMINGHAM

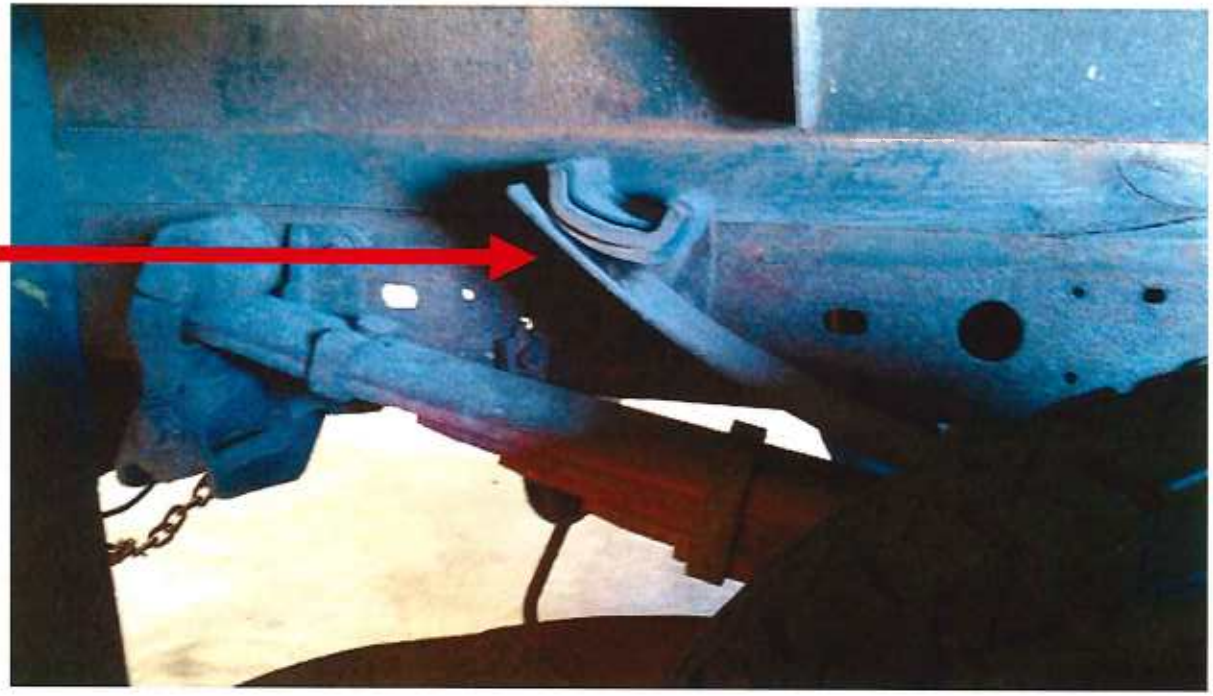
Rust damage and leakage of oil tank requiring removal of engine for repair.





Leakage of rear main engine seal that will requiring removal of transmission to repair.

Failing rear springs, causing truck to rest on its helper springs prior to addition of rear loads, creating load instability.



# FY2019 Requested: Deferred beyond FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | PARK/ParkRec/2019/D | **Budget Year:** | 2019 |
| **Project Title:** | Kubota Tractor L4740 GST 4x4 | **Scenario:** | Main 2019 |
| **Asset Type:** | | **Budget Status:** | Department Request |
| **Department:** | C7-650 - Parks & Recreation | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2013 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

These funds will be used to purchase a Kubota Tractor 4x4 GST to replace a 1997 Kubota Tractor with 2,757 operational hours, equating to 96,495 engine miles. This new purchase will allow for the current Kubota to be used as a backup for daily activities and maintain a reduced working schedule.

## Comments:

## Justification:

This vehicle, listed within our fleet as Truck 22, is a Kubota Tractor that is used to maintain fields on a daily basis. This tractor contains the ability to serve as a backhoe, fertilizer applicator, aerator, rototiller and front end loader. Due to the amount of engine hours accrued by the tractor, it is a major risk of failing, which would cause significant setbacks to the daily operational needs of the Parks Maintenance Department.

In addition to the age and amount of usage this tractor has experienced, the tractor will also require the following repairs to remain in operation:

• Replacement of front bucket assembly bushings and grease fittings;
• Rebuilding of front bucket valve body;
• Replacement of cab;

In addition to these concerns and deficiencies, the evolving operational environment is requiring the need for an additional tractor with multiple use functions. Currently, there are two Kubota Tractors (1997 & 2006) within fleet. During the height of seasonal operations, there is continually a gap in service due to the rising need for these tractors and limited inventory. By purchasing this Kubota, we will be able to adequately meet the operational needs of the Maintenance Department in management of over 550 acres of Town/City Property.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 38,808 | 0 | 38,808 |
| | **38,808** | **0** | **38,808** |

| 2018 Kubota Tractor 4x4 GST | |
|---|---|
| Estimate from Norfolk Power Equipment, 11/2017 | $36,960.00 |
| **Sub Total** | |
| 5% Estimated Cost Escalation for FY19 Contract | $1,848.00 |
| **Total** | **$38,808.00** |

Price per quote from Fred Noonon at Norlfolk Power Equipment
received November, 2017

# Framingham
# Parks and Recreation Department

**475 Union Avenue · 508 532 5960**

## Memorandum

**From the desk of Donald Capen**

November 4, 2017

**RE: Capital Budget Vehicle Replacement – 1997 Kubota Tractor L4740**

Chris,

As requested, the following is a description of the current issues with the 1997 Kubota Tractor. Currently, this vehicle has 96,495 engine miles.

Due to the amount of engine hours accrued by the tractor, it is a major risk of failing, which would cause significant setbacks to the daily operational needs of the Parks Maintenance Department. Current issues requiring attention, labor and expense are:

- Replacement of front bucket assembly bushings and grease fittings;
- Rebuilding of front bucket valve body;
- Replacement of cab;

After 21 years of operational service, the overall physical and mechanical condition of the vehicle is significantly degraded. Based on an overall assessment of the vehicle, I believe it has reached its useful life expectancy and would recommend replacement.

Regards,

Donald Capen
Mechanic

PARKS
TOWN OF FRAMINGHAM, MA
& RECREATION

# NORFOLK POWER EQUIPMENT


846 Bronco Highway
Burrillville, RI 02830
Tel: (401) 710-9911
Fax: (401) 710-9466

5 Cushing Drive
Wrentham, MA 02093
Tel: (508) 384-0011
Fax: (508) 384-8667

45 North Main Street
Carver, MA 02330
Tel: (774) 213-9190
Fax: (508) 465-0931

*www.norfolkpower.com ** Please remit payment to Wrentham address ** info@norfolkpower.com*


SOLD TO
RFR041 FRAMINGHAM PARK & RECREATION
475 UNION AVE
FRAMINGHAM, MA 01701

SHIP TO

Sold By: FN PO #: L TRAC Date 11/01/17 QUOTE QT34110
Ship By: Tax #: 046001151 16:10:37 Open

| Tax | D | Qty | Description ----------* | Price | Amount |
|---|---|---|---|---|---|
| | | | MISC EQPT | | |
| N | | | KUBOTA L4760GST TRACTOR W/ | | |
| N | | | 29X1250X15 FT TURFS | | |
| N | | | 44X18X20 REAR TURFS | | 28200.00 |
| N | | | L8398 AND L8393 REMOTE VALVES | | 900.00 |
| N | | | L8170 BALLEST BOX | | 450.00 |
| N | | | MX8068 WT BRKT | | |
| N | | | BL8060 7 WEIGHTS | | 600.00 |
| N | | | LA1055 FL LOADER W/72 HD BUCKET | | 5450.00 |
| N | | | | | |
| N | | | ALR8708 FRONT TIRE 29X1250X15 | | 435.00 |
| N | | | ALR6803 44X18X20 REAR TIRE | | 925.00 |
| | | | ** TOTAL MISC EQPT | | 36960.00 |

***All new equipment quotes valid for 45 days unless stated otherwise.***

** SUBTOTAL 36960.00

X_____ Charge Sale

Phone: (508)532-5960

PAY THIS AMOUNT $36960.00

# 1997 Kubota Tractor 4x4 GST

Choose FRAMINGHAM

# FY2019 Requested: Deferred beyond FY2020

| | | | |
|---|---|---|---|
| **Project Number:** | PARK/ParkRec/2019/G | **Budget Year:** | 2019 |
| **Project Title:** | Fence and Backstop Replacement Phase 3 | **Scenario:** | Main 2019 |
| **Asset Type:** | | **Budget Status:** | Department Request |
| **Department:** | C7-650 - Parks & Recreation | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2010 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

Demolish and replace various size chain link fence, gates, and guardrail at various parks properties.

## Comments:

## Justification:

Properly maintained vertical structures at park facilities have a dramatic impact on overall neighborhood culture and public safety. Properly maintained parks are integral to neighborhood beautification, stabilization, site usability, public safety, and maintaining surrounding property values. The Board of Selectmen Vision Statement indicates "Our Town will foster a sense of pride by placing a high priority on quality education, neighborhood parks ... and promote a clean and beautiful Town." The "Choose Framingham" initiative identifies the fact that "the average distance to a playground or other recreation area from any single family parcel is approximately a quarter of a mile." As such, by replacing fence and backstops at park locations we are able to continue on forwarding not only the Board of Selectmen's Vision Statement but also continue to build neighborhood pride in local parks.

In addition to maintaining neighborhood parks and other passive recreational facilities throughout the Town, the Parks, Recreation & Cultural Affairs Division also maintains three cemeteries (Edwards Cemetery, Old South Burial Grounds, Main Street Cemetery). Parks staff members have identified needed replacement of various fence lines at these three cemeteries. Normal aging, tree damage and the need for fencing placement has resulted in identifying these three locations for improvements.

Phase 3 of the Fence and Backstop Replacement program includes improvements at the following Parks & Recreation maintained properties:

* Removal and replacement of chain link installations at Main Street Cemetery
* Removal and replacement of chain link installations at Old South Cemetery
* Removal of chain link installations and replacement consisting of wooden guardrail at Edwards Cemetery
* Removal and replacement of telephone stump fencing at Winch Tennis Courts
* Removal and replacement of oversized backstop at Charlotte Dunning Softball Field

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 263,987 | 0 | 263,987 |
| | **263,987** | **0** | **263,987** |

| Fence and Backstop Repair | | | |
|---|---|---|---|
| | | | |
| | | 10% Contingency | Sub Total |
| Phase III | $239,988.00 | $23,998.80 | $263,986.80 |
| Phase IV | $311,696.00 | $31,169.60 | $342,865.60 |
| Phase V | $368,001.50 | $36,800.15 | $404,801.65 |
| | | | |
| Total | | | $1,011,654.05 |

# Fence & Backstop Replacement
# Phase III

| | | Item | Qty. | Unit Price | | Total |
|---|---|---|---|---|---|---|
| Dunning Softball (School) | | Backstop 16' | 1 | $25,250.00 | | $ 25,250.00 |
| Backstop Removals | | | 1 | $2,250.00 | | $ 2,250.00 |
| Dunning Complex | | 8 ft. fencing installation | 30 | $84.50 | | $ 2,535.00 |
| Walsh Upper Softball (School) | | Backstop 16' | 1 | $25,250.00 | | $ 25,250.00 |
| Backstop Removals | | | 1 | $2,250.00 | | $ 2,250.00 |
| Walsh Upper Softball (School) | | 8 ft. fencing installation | 30 | $84.50 | | $ 2,535.00 |
| | | | | | | |
| Longs Complex | | | | | | |
| Carter Field | | 6 ft. fencing installation | 330 | $73.60 | | $ 3,712.50 |
| Merloni Field | | 6 ft. fencing installation | 530 | $73.60 | | $ 39,008.00 |
| Tersoni field | | 8 ft. fencing installation | 700 | $84.50 | | $ 36,135.00 |
| Upper Longs | | Wooden Guard Rail | 250 | $49.50 | | $ 16,500.00 |
| | | | | | | |
| Kellog Street Canoe Launch | | Wooden Guardrail | 75 | $49.50 | | $ 3,712.50 |
| | | | | | | |
| Winch Park | | Wooden Guardrail | 730 | $49.50 | | $ 24,750.00 |
| Winch Park | | Leafgate (14 ft.) | 1 | $16,500.00 | | $ 16,500.00 |
| | | | | | | |
| Danforth Park | | Wooden Guardrail | 300 | $ 49.50 | | $ 14,850.00 |
| | | | | | | |
| Cushing Park, Keefe side lot | | Wooden Guardrail | 500 | $49.50 | | $ 24,750.00 |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | Total | | | | $ 239,988.00 |
| | | **10% Contingency** | | | | $ 23,998.80 |
| | | **Total Requested** | | | | $ 263,986.80 |

Note:
Unit pricing above is taken from budget prices quoted to us by Steelco Fencing October 2017. Prices are good for a 12 month period.

## Framingham Park & Recreation Department

Appropriated

This method of payment will be per linear foot for fencing, and per each unit for posts and gates
This will include all excavation, concrete work, backfilling and grading necessary to complete work

| | ITEMS: | PRICE: |
|---|---|---|
| 1 | 48 Inch Chain Link Fence - to include end posts, corner posts & top & bottom rail | $51.50 |
| 2 | 60 Inch Chain Link Fence - to include end posts, corner posts, line posts & top & bottom rail | $53.75 |
| 3 | 72 Inch Chain Link Fence - to include end posts, corner posts, line posts & top & bottom rail | $73.60 |
| 4 | 96 Inch Chain Link Fence - to include end posts, corner posts, line posts & top & bottom rail | $84.50 |
| 5 | 12 Foot High Backstop - Backstops with canopy per unit installed | $17,350.00 |
| 6 | 16 Foot High Backstop - Backstops with canopy per unit installed | $25,250.00 |
| 7 | 20 Foot High Backstop - Backstops with canopy per unit installed | $35,225.00 |
| 8 | Wood Guard Rail - L.F. | $49.50 |
| 9 | 6 Inch Bollards - Ea. | $850.00 |
| 10 | Steel Leaf Gates 12' - per units installed | $10,950.00 |
| 11 | Steel Leaf Gates 14' - per units installed | $16,500.00 |
| | **FENCE REPAIR** | |
| 12 | Backstop Removal - Ea. | $2,250.00 |
| 13 | Remove & Repair 48" Terminal Posts | $85.00 |
| 14 | Remove & Repair 60" Terminal Posts | $99.80 |
| 15 | Remove & Repair 72" Terminal Posts | $162.50 |
| 16 | Remove & Repair 48" Line Posts | $57.75 |
| 17 | Remove & Repair 60" Line Posts | $66.00 |
| 18 | Remove & Repair 72" Line Posts | $73.50 |
| 19 | Remove & Repair 48" Fabric | $22.75 |
| 20 | Remove & Repair 60" Fabric | $23.75 |
| 21 | Remove & Repair 72" Fabric | $27.75 |
| 22 | Remove & Repair Top Rail - L.F. | $9.50 |
| 23 | Remove & Repair Bottom Rail - L.F. | $9.75 |
| 24 | 4 Foot High Walk Gates - with gate posts | $850.00 |
| 25 | 5 Foot High Walk Gates - with gate posts | $998.00 |
| 26 | 6 Foot High Walk Gates- with gate posts | $1,270.00 |
| 27 | 4 Foot High Double Gates - with gate posts | $1,700.00 |
| 28 | 5 Foot High Double Gates - with gate posts | $1,975.00 |
| 29 | 6 Foot High Double Gates- with gate posts | $2,255.00 |
| 30 | Demolition and Removal 4', 5', 6', 7', and 8' - L.F. | $9.00 |
| 31 | Domolition and Removal Wood Guard - L.F. | $8.00 |
| 32 | Clearing of Fence Lines - L.F. | $9.00 |

Updated 10/26/17 Dave Meleedy / Steelco Fence. Prices are good for a 12 months period.

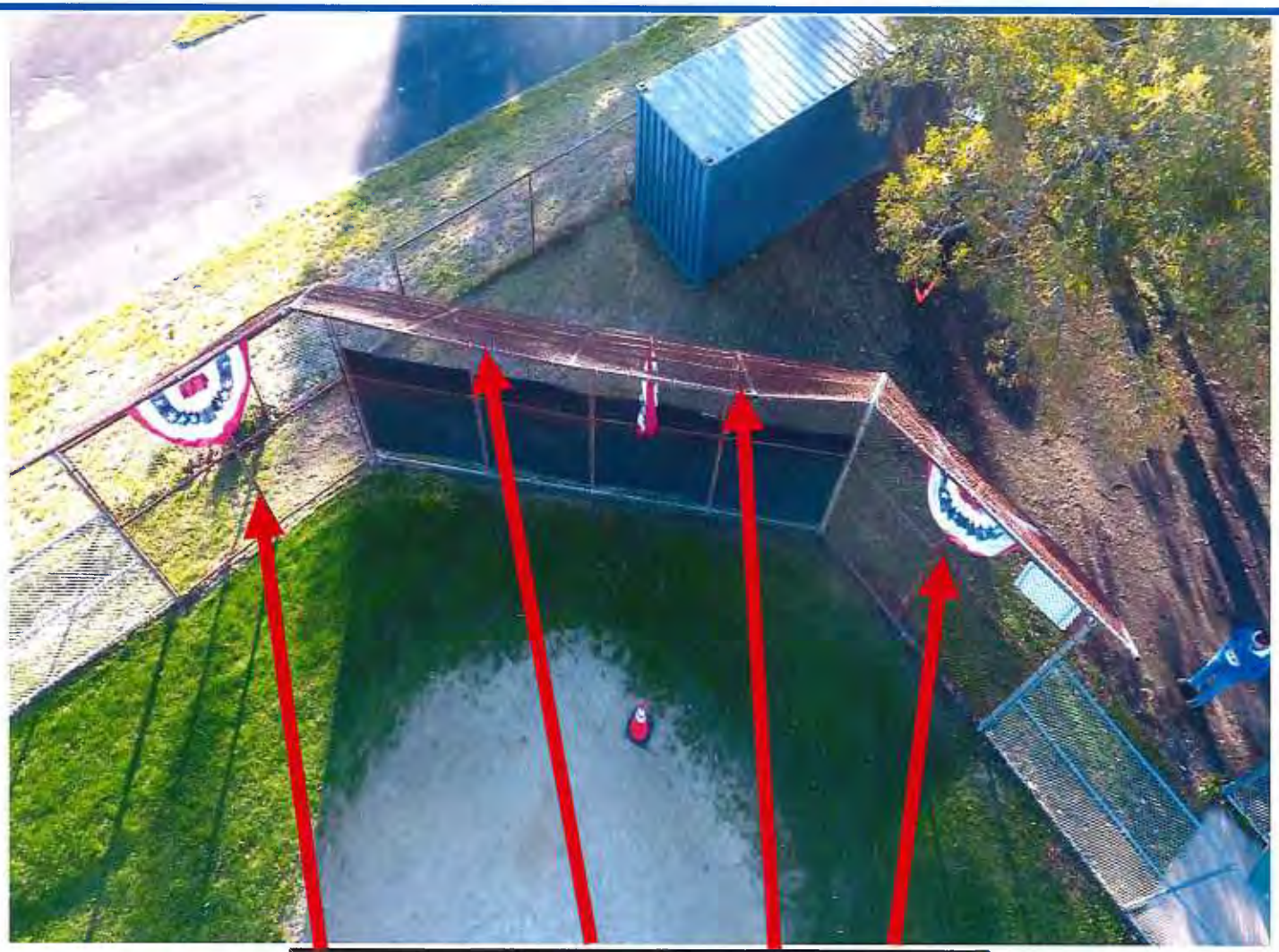
# Dunning Softball – District 2

Failing support rails; no safety netting;

Bowing and deteriorating support rails

Choose FRAMINGHAM

# Walsh Upper Softball – District 2



Deteriorating and failing backstop

Choose FRAMINGHAM

# Kellogg Street Canoe Launch – District 5

Lack of separation from designated parking area to park space

Choose FRAMINGHAM

# Winch Park – District 2

Lack of barrier between roadway and tennis court fencing/water supply

# Danforth Park – District 2

Aging, rotting and failing wooden guardrail system

# Cushing Park, Winter Street Entrance – District 6

Lack of guardrail leading to illegal parking and damage to grounds

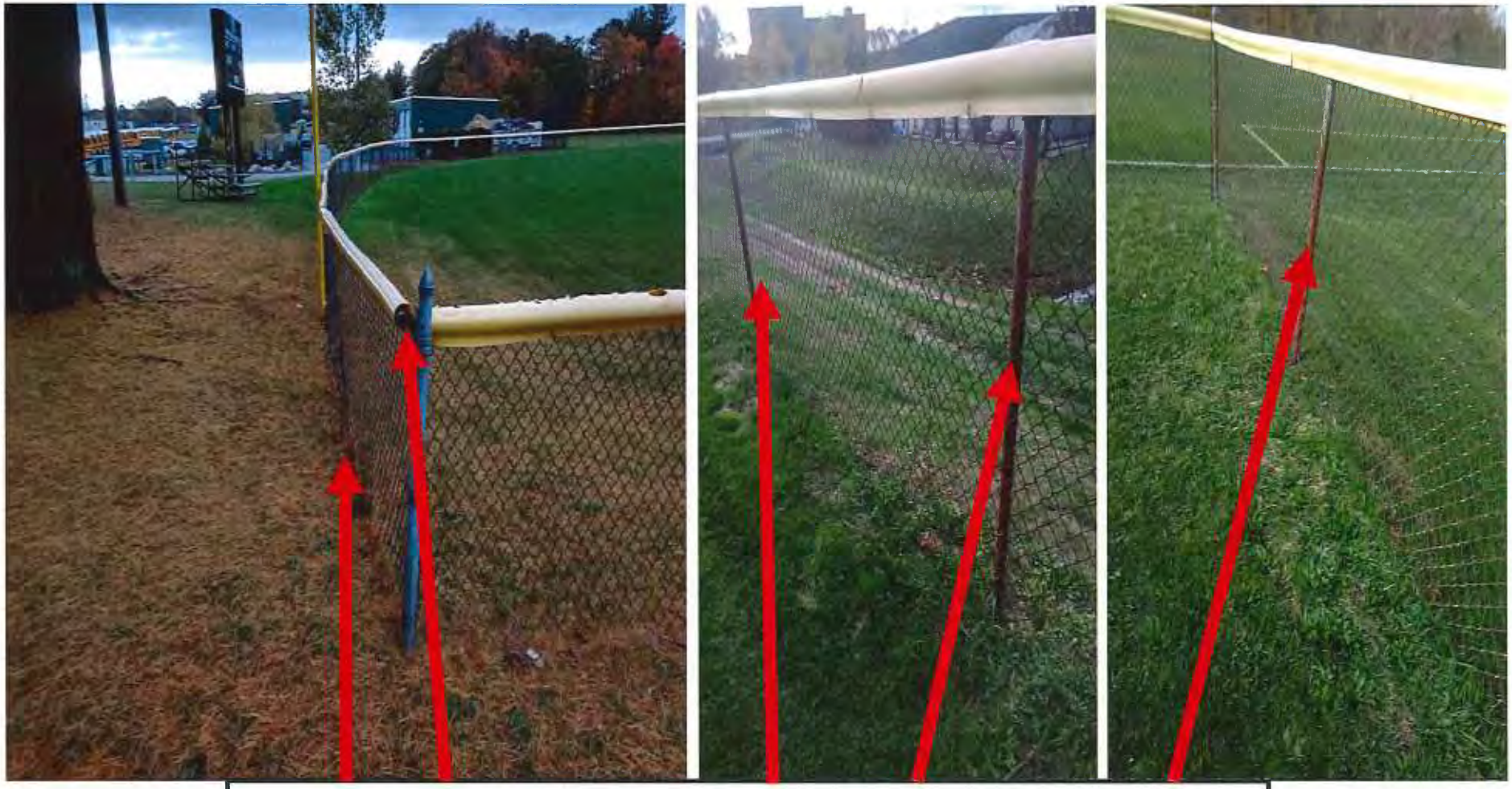
Choose FRAMINGHAM

# Longs Complex – Carter Field
# District 6

Deteriorating and failing fence line creating safety concerns

Choose FRAMINGHAM

# Longs Complex – Merloni Field
# District 6



Aging, deteriorating and failing fence line



Choose FRAMINGHAM

# Longs Complex – Tusoni Field
# District 6

Aging and deteriorating fence line requiring replacement

# Longs Complex – Upper Longs
# District 6

Aging and deteriorating guardrail fence line

Choose FRAMINGHAM

# FY2019 Requested: Bond $497,952

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Sewer/2019/B | **Budget Year:** | 2019 |
| **Project Title:** | Replace Vactor Truck, #741 | **Scenario:** | Main 2019 |
| **Asset Type:** | HEAVY DUTY TRUCKS | **Budget Status:** | Department Request |
| **Department:** | C2-440 - Sewer Enterprise | **Regions:** | |
| **Project Type:** | Water Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

- 2008, meter reading and backflow preventers, #704, $60,131
- 2008, meter reading and backflow preventers, #725, $60,131

## Comments:

Service performance, pride of service and community support are all emphasized by DPW, with vehicle cleanliness an important expression of those, and a responsibility of DPW staff.

## Justification:

All of the existing vehicles being replaced will have exceeded 10 years in service when replaced (and sold), and nearly all are near to or over 100,000 miles or run-hours equivalent. Industry and Framingham DPW experience indicates that above those thresholds maintenance increases substantially to assure service reliability, as do major repairs, none of which provide a return on investment, and they are not sustainable with the current DPW facility and staffing. In addition to daily service for the various Divisions, they all are used for the Department's snow and ice management program, with many also used to respond to community events and emergencies. Snow plowing is particularly destructive to vehicles.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 497,952 | 0 | 497,952 |
| | **497,952** | **0** | **497,952** |

# FY2019 Recommended: Retained Earnings $375,000

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Sewer/2019/C | **Budget Year:** | 2019 |
| **Project Title:** | Annual Various Sewer Improvements - 2019 | **Scenario:** | Main 2019 |
| **Asset Type:** | SEWER PROJECTS | **Budget Status:** | Department Request |
| **Department:** | C2-440 - Sewer Enterprise | **Regions:** | |
| **Project Type:** | Sewer Piping | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

**Description:**

Funding for the DPW to respond to unanticipated sewer system failures

**Comments:**

**Justification:**

Necessary infrastructure improvements

**Description:**

**Comments:**

**Project Forecast**

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 375,000 | 0 | 375,000 |
| | **375,000** | **0** | **375,000** |

# FY2019 Recommended: Retained Earnings $500,000

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Sewer/2019/D | **Budget Year:** | 2019 |
| **Project Title:** | Annual Sewer Pump Stations Eqpt Replacements - 2019 | **Scenario:** | Main 2019 |
| **Asset Type:** | WATER/SEWER PUMP STATIONS | **Budget Status:** | Department Request |
| **Department:** | C2-440 - Sewer Enterprise | **Regions:** | |
| **Project Type:** | Sewer Non-Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This appropriation will provide for the replacement and upgrades of equipment at older wastewater pumping stations. The project includes the planned replacement of pumps, motors, controls and others, as well as emergency replacements.

## Comments:

## Justification:

The lifespan and reliability of these stations can be extended a decade or more through the replacement of component parts as they become worn and inefficient, thereby reducing the near-term need for significant capital funds. For example, underground controls and Supervisory Control and Data Acquisition (SCADA) systems may be considered to be raised above ground for reduction of corrosion and for safety purposes.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 500,000 | 0 | 500,000 |
| | **500,000** | **0** | **500,000** |

# FY2019 Recommended: Bond $3,800,000

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Sewer/2019/E | **Budget Year:** | 2019 |
| **Project Title:** | Worcester Rd Sewer Mains (East of Concord St) – Ph I Construction, Phases II & III Design | **Scenario:** | Main 2019 |
| **Asset Type:** | SEWER LINES | **Budget Status:** | Department Request |
| **Department:** | C2-440 - Sewer Enterprise | **Regions:** | |
| **Project Type:** | Sewer Piping | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

The overall project is to line or replace water and sewer mains between Concord Street and the Natick town line, as well as the cross-country sewer connector that runs north from Worcester Road through Natick, terminating near Cochituate Road. This work is to be designed and constructed in three sections (I – Rt 9 eastbound lanes, including the Pierce and Dinsmore neighborhoods; II – Westbound lanes; III – north-south sewer connector), with this request for the construction of Phase I, and the final design of II and III.

## Comments:

Approval and coordination with MassDOT, particularly in minimizing traffic disruptions, and coordination with a large number of businesses and residences are important aspects of this multiple year construction project. Approval and coordination with the Framingham and Natick Conservation Commissions are needed for Phase III.

## Justification:

The need for this project are some undersized pipes, pipe age and materials, condition, and the consequences of their failure, with this investment increasing capacity, reliability and fire flow, and reducing maintenance costs. Most of this infrastructure is between 50 and 100 years old, and they serve major portions of Framingham's retail businesses, where emergency repairs and the disruption of service and traffic would be very costly. The cross-country connector traverses wetlands, which make maintenance access and emergency repairs extremely difficult, costly and damaging to the natural resources, especially during wet periods.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 3,800,000 | 0 | 3,800,000 |
| | **3,800,000** | **0** | **3,800,000** |

# FY2019 Recommended: Bond $1,200,000

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Sewer/2019/F | **Budget Year:** | 2019 |
| **Project Title:** | Sewer Defects Repairs Ph 2 – Design and Construction | **Scenario:** | Main 2019 |
| **Asset Type:** | SEWER PROJECTS | **Budget Status:** | Department Request |
| **Department:** | C2-440 - Sewer Enterprise | **Regions:** | |
| **Project Type:** | Sewer Piping | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This work will continue Phase 1 (south of Waverly) implementation of “No Dig” lining repairs (aka trenchless), extending into the area between Waverly Street and Worcester Road/Route 9. Investigations and planning will also be performed for the necessary, and more expensive and disruptful “Dig” repairs in the Phases 1 and 2 areas, and a coordinated plan developed for implementing those repairs, likely as part of a Phase 3 Defects Repairs effort in FY2020.

## Comments:

This work, and the anticipated Phase 3 Defects Repairs may be performed as part of a distinct capital project, with other capital projects, by an On-call contractor, and/or by Operations staff.

## Justification:

Framingham has studied 50% of its sewer system focused on identifying high priority sewer repairs that would reduce infiltration, as well as extend the reliable service life of sewer system assets. Infiltration reduces the capacity for sewage flow, can result in back ups and overflows, and increases the billings from MWRA, which is based on total sewer flow from Framingham. Phase 1 repairs were implemented in late 2017 for defects at and south of Waverly Street, with only “No Dig” lining performed to date, since they could be implemented more rapidly, at less cost, and none of the surface disruptions with “Dig” repairs or replacements.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 1,200,000 | 0 | 1,200,000 |
| | **1,200,000** | **0** | **1,200,000** |

AECOM

AECOM
250 Apollo Drive
Chelmsford, MA 01824
www.aecom.com

978 905 2100 tel
978 905 2101 fax

November 7, 2017

Mr. John H. Rogers
Director of Project Development and
Right of way Acquisition
Department of Public Works
110 Western Avenue
Framingham, MA 01702

RE: FY19 Planning Level Cost Estimate
Sewer Defects Repairs Phase 2 – Design and Construction

Dear Mr. Rogers:

This letter confirms the need for funding for the following project:

**Sewer Defects Repairs Phase 2 – Design and Construction**

Opinion of design and construction budget: $1,200,000 (sewer)

Description: This work will continue Phase 1 (south of Waverly) implementation of "No Dig" lining repairs (aka trenchless), extending into the area between Waverly Street and Worcester Road/Route 9. Investigations and planning will also be performed for the necessary, and more expensive and disruptful "Dig" repairs in the Phases 1 and 2 areas, and a coordinated plan developed for implementing those repairs, likely as part of a Phase 3 Defects Repairs effort in FY2020.

Justification and Comments: Framingham has studied 50% of its sewer system focused on identifying high priority sewer repairs that would reduce infiltration, as well as extend the reliable service life of sewer system assets. Infiltration reduces the capacity for sewage flow, can result in back ups and overflows, and increases the billings from MWRA, which is based on total sewer flow from Framingham. Phase 1 repairs were implemented in late 2017 for defects at and south of Waverly Street, with only "No Dig" lining performed to date, since they could be implemented more rapidly, at less cost, and none of the surface disruptions with "Dig" repairs or replacements.

This work, and the anticipated Phase 3 Defects Repairs may be performed as part of a distinct capital project, with other capital projects, by an On-call contractor, and/or by Operations staff.

Key Assets:5,000 LF of sewer main rehabilitated (lined).

Please do not hesitate to contact me if you have any comments or questions.

Sincerely,

Joseph M. Boccadoro, P.E.
Project Manager
AECOM

# FY2019 Recommended: Bond $1,650,000

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Sewer/2019/G | **Budget Year:** | 2019 |
| **Project Title:** | Woodland Sewer Forcemain Replacement - Construction | **Scenario:** | Main 2019 |
| **Asset Type:** | SEWER PROJECTS | **Budget Status:** | Department Request |
| **Department:** | C2-440 - Sewer Enterprise | **Regions:** | |
| **Project Type:** | Sewer Piping | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This project is for the replacement of 1,800 feet of aged sewer force main from the Woodland Pump Station through wetlands and under the Mass Pike.

## Comments:

## Justification:

Pipes downstream of sewer pump stations have increased risk of failure and need for maintenance, wetlands are a common source of infiltration into pipes, and a failure under the highway could be catastrophic. Replacement of this 60 year old asbestos cement pipe will address these issues and provide reliable service for many decades. This project was deferred from the FY2018 requests.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 1,650,000 | 0 | 1,650,000 |
| | **1,650,000** | **0** | **1,650,000** |

## Project Details 2019

| Object | Description | | Total Amount |
|---|---|---|---|
| **Expense** | | | |
| 34405006-58300 | Improvements | | 1,650,000 |
| | | **Total Expense:** | **1,650,000** |

## Related Projects

## Operating Budget Impact

| Budget Year | Exp (Rev) | FTE Impact |
|---|---|---|

**Stantec Consulting Services Inc.**
5 Burlington Woods Drive
Burlington, MA 01803
Tel: (978) 692-1913
Fax: (978) 692-4578

November 14, 2016

**Ms. Vonnie M. Reis, P.E.**
**Director of Capital Projects**
**Framingham Department of Public Works**
**110 Western Avenue**
**Framingham, MA 01702**

**Reference: Woodland PS Force Main Realignment Project**
**Annual Town Meeting Funding Request**

Dear Ms. Reis:

In conjunction with the preliminary engineering services for the Woodland Pump Station Force Main Realignment project under Task Order #7 of our MSA with the Framingham DPW, Stantec prepared a Preliminary Opinion of Probable Construction Cost. This letter serves as backup for the Annual Town Meeting funding appropriation on the total project.

The Woodland PS Force Main Realignment will eliminate the crossing of the existing 10" asbestos cement (AC) force under the MassPike and replace it with a new 10" PVC pressure pipeline that will start at the Woodland Pump Station and proceed along the northern side of the MassPike right-of-way (off the travel way) to the intersection with Edgell Road for a distance of approximately 1,100 feet. The proposed new force main would then turn south on Edgell Road crossing under the MassPike overpass for an approximate distance of 700 feet to connect back into the existing 10" AC force main.

This project will address the Town's goals of improvements to public infrastructure and protection of the environment. The existing 10" AC force main has experienced a collapse requiring emergency repairs be made. Since the force main crosses under the MassPike, access for maintenance and repairs is very limited making it difficult to address future problems that may arise. The deteriorating condition of the AC pipe also increases the risk of releasing raw sewage to the nearby stream and wetlands should another failure occur. The proposed replacement PVC force main provides much improved access and protection against pipe failure and release to the environment.

We recommend a total appropriation for the project of **$1,735,000**.

Reference: Woodland PS Force Main Realignment Project
Annual Town Meeting Funding Request

Please feel free to contact me if you have any questions regarding this project and development of the total project costs.

Sincerely,

John E. Murphy, P.E., BCEE
Senior Associate
Phone: (978) 577-1407
Cell: (617)413-1755
john.murphy@stantec.com

# FY2019 Recommended: Bond $2,100,000

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Sewer/2019/H | **Budget Year:** | 2019 |
| **Project Title:** | Lanewood Siphon Replacement - Construction | **Scenario:** | Main 2019 |
| **Asset Type:** | SEWER PROJECTS | **Budget Status:** | Department Request |
| **Department:** | C2-440 - Sewer Enterprise | **Regions:** | |
| **Project Type:** | Sewer Piping | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This project will construct a replacement siphon in a jacked steel casing pipe under the aqueduct that meets current design standards, including redundancy and improved access for maintenance. It will also provide for a future non-siphon (gravity) configuration if the sewer elevation is lowered on Waveney and Pleasant Streets.

## Comments:

The work will conform to recent area roadway improvements.

## Justification:

The existing single barrel siphon under the MWRA Weston Aqueduct has inadequate access for maintenance and does not meet current design standards for inverted sewer siphons, requiring frequent bypass pumping and maintenance in order to assure flow from 500 homes and prevent sewer backups. This project was deferred from the FY2018 requests.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 2,100,000 | 0 | 2,100,000 |
| | **2,100,000** | **0** | **2,100,000** |

Environmental Partners GROUP
A partnership for engineering solutions.

November 6, 2017

Ms. Julie Liu, P.E.
Senior Project Manager
Town of Framingham Department of Public Works
110 Western Avenue
Framingham, MA 01702

**RE: FY 19 Funding Article for Lanewood Avenue Siphon Replacement - Construction**

Dear Ms. Liu:

This letter confirms the need for $2,100,000 in funding for the Lanewood Avenue Siphon Replacement Project. This project will construct a replacement siphon in a jacked steel casing pipe under the Weston Aqueduct that meets current design standards, including redundancy and improved access for maintenance. It will also provide for a future non-siphon (gravity) configuration if the sewer elevation is lowered on Waveney and Pleasant Streets. Additional project work will include abandonment of the existing sewer siphon, bypass sewer pumping, and restoration of the project area.

The existing siphon is poorly constructed and lacks adequate access for routine maintenance. A failure of the siphon would result in a loss of sewer service to more than 500 Framingham sewer users. The siphon is a single barrel and design standards require a double barrel siphon to provide a second pipe for inspection and cleaning, as well as for its location underneath an MWRA aqueduct.

The Key Assets are:
300 LF of sewer main to be replaced
300 LF roadway to be rehabbed or replaced

Very truly yours,

**ENVIRONMENTAL PARTNERS GROUP, INC.**

Ryan Allgrove

Ryan J. Allgrove, P.E.
Project Manager

# FY2019 Recommended: Retained Earnings $72,153

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Water/2019/B | **Budget Year:** | 2019 |
| **Project Title:** | Replace Water Dump Truck, #626 | **Scenario:** | Main 2019 |
| **Asset Type:** | DUMP TRUCKS | **Budget Status:** | Department Request |
| **Department:** | C1-450 - Water Enterprise | **Regions:** | |
| **Project Type:** | Water Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

**Description:**

Replace Water Dump Truck, #626

**Comments:**

Service performance, pride of service and community support are all emphasized by DPW, with vehicle cleanliness an important expression of those, and a responsibility of DPW staff.

**Justification:**

All of the existing vehicles being replaced will have exceeded 10 years in service when replaced (and sold), and nearly all are near to or over 100,000 miles or run-hours equivalent. Industry and Framingham DPW experience indicates that above those thresholds maintenance increases substantially to assure service reliability, as do major repairs, none of which provide a return on investment, and they are not sustainable with the current DPW facility and staffing. In addition to daily service for the various Divisions, they all are used for the Department's snow and ice management program, with many also used to respond to community events and emergencies. Snow plowing is particularly destructive to vehicles.

**Description:**

**Comments:**

**Project Forecast**

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 72,153 | 0 | 72,153 |
| | **72,153** | **0** | **72,153** |

MHQ
VEHICLES ■ EQUIPMENT ■ GEAR

# QUOTE

## CUSTOMER

| | | | |
|---|---|---|---|
| Contact Name: | Fred Davies | Date: | 10/30/2017 |
| Company/Dept: | Town of Framingham Department of Public Works | Valid for: | 60 Days* |
| Street Address: | 100 Western Ave. | Customer #: | 10141 |
| City, State, Zip: | Framingham, MA 01702 | Contract: | GBPC/BAPERN 2015 |
| Phone: | 508-532-6070 | Sales Rep: | Greg Keith |
| E-Mail: | fjd@framinghamma.gov | | |

| CONTRACT LINE REFERENCE | LINE DESCRIPTION | UNIT PRICE | QTY. | EXTENDED PRICE |
|---|---|---|---|---|
| | | | | |
| F5H | 2018 F550 Chassis 4X4 Regular Cab 145" wb, 60" CA 18,000#GVWR | | | |
| | V10 gasoline engine | | | |
| SP101 | Factory Special Paint, W6695F Yellow | | | |
| | Four Wheel Drive with manual locking hubs | | | |
| | Automatic Transmission | | | |
| | HD vinyl bench seat, HD vinyl flooring, spare tire | | | |
| | AM/FM radio with digital clock | | | |
| | Factory upfitter switches | | | |
| | Spare tire on wheel | | | |
| 43C | 110V/400 Watt Power Outlet (1) | | | |
| 473 | Factory Snow Plow Prep | | | |
| X8L | 4:88 limited slip rear axle | | | |
| 62R | Transmission PTO provision | | | |
| 52B | Trailer brake controller | | | |
| 18B | Black molded running boards factory installed RC | | | |
| TGB | 225/70RX19.5 BSW Traction Tires, Front & Rear | | | |
| 68U | 19,000 Lb. GVWR Payload Upgrade, 60" CA Gas only | | | |
| 2.05 | Diamond/Meyer 9' snow plow w/ poly foil and steel bolt on edge | | | |
| 4.03 | Transmission PTO driven central hydraulic system | | | |
| 5.03 | 3 to 4 cubic yard crossmemberless dump body with 3/16" Hardox floor | | | |
| 5.06 | Tailgate asphalt chute | | | |
| | Front bulkhead with corner goal posts - no cab shield - 2" above cab | | | |
| 5.13 | Oak side boards (2"x 8"- Light Duty) | | | |
| 5.42 | Manually retracted asphalt canvas load cover | | | |
| 7.01 | 30" stainless steel under body toolbox | | | |
| 7.02 | Poly rear fenders, frame mounted (Light Duty Chassis) | | | |
| 7.07 | Reinforced plate mounted ball and pintle hook combination | | | |
| 7.05 | Trailer plug, wired with 6-pin round adapter | | | |
| N/A | Driver's door mounted incandescent spotlight | | | |
| N/A | Led taillights | | | |
| N/A | Undercoat dump body | | | |
| N/A | Mobile radio | | | |
| N/A | Emergency/safety lights | | | |
| | | | TAX: | |
| | | | **TOTAL:** | **$72,153.00** |

# FY2019 Recommended: Retained Earnings $350,000

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Water/2019/C | **Budget Year:** | 2019 |
| **Project Title:** | Annual Various Water Improvements Project - 2019 | **Scenario:** | Main 2019 |
| **Asset Type:** | WATER PROJECTS | **Budget Status:** | Department Request |
| **Department:** | C1-450 - Water Enterprise | **Regions:** | |
| **Project Type:** | Water Piping | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

**Description:**

Funding for the DPW to respond to unanticipated water system failures

**Comments:**

**Justification:**

Necessary infrastructure improvements

**Description:**

**Comments:**

**Project Forecast**

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 350,000 | 0 | 350,000 |
| | **350,000** | **0** | **350,000** |

# FY2019 Recommended: Bond $250,000

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Water/2019/D | **Budget Year:** | 2019 |
| **Project Title:** | Annual Various Hydrant and Valve Improvements Project - 2019 | **Scenario:** | Main 2019 |
| **Asset Type:** | HYDRANTS | **Budget Status:** | Department Request |
| **Department:** | C1-450 - Water Enterprise | **Regions:** | |
| **Project Type:** | Water Piping | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

**Description:**

For the timely repair of water system infrastructure.

**Comments:**

**Justification:**

Necessary infrastructure improvements.

**Description:**

**Comments:**

**Project Forecast**

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 250,000 | 0 | 250,000 |
| | **250,000** | **0** | **250,000** |

# FY2019 Requested: Deferred to FY2020 or beyond

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Water/2019/E | **Budget Year:** | 2019 |
| **Project Title:** | Worcester Road Water Main Rehabilitation, Concord Rd to Natick line - Construction | **Scenario:** | Main 2019 |
| **Asset Type:** | WATER - MAINS | **Budget Status:** | Department Request |
| **Department:** | C1-450 - Water Enterprise | **Regions:** | |
| **Project Type:** | Water Piping | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

The overall project is to line or replace water and sewer mains between Concord Street and the Natick town line, as well as the cross-country sewer connector that runs north from Worcester Road through Natick, terminating near Cochituate Road. This work is to be designed and constructed in three sections (I – Rt 9 eastbound lanes, including the Pierce and Dinsmore neighborhoods; II – Westbound lanes; III – north-south sewer connector), with this request for the construction of Phase I, and the final design of II and III.

## Comments:

See related sewer main project.
Approval and coordination with MassDOT, particularly in minimizing traffic disruptions, and coordination with a large number of businesses and residences are important aspects of this multiple year construction project. Approval and coordination with the Framingham and Natick Conservation Commissions are needed for Phase III.

## Justification:

The need for this project are some undersized pipes, pipe age and materials, condition, and the consequences of their failure, with this investment increasing capacity, reliability and fire flow, and reducing maintenance costs. Most of this infrastructure is between 50 and 100 years old, and they serve major portions of Framingham's retail businesses, where emergency repairs and the disruption of service and traffic would be very costly. The cross-country connector traverses wetlands, which make maintenance access and emergency repairs extremely difficult, costly and damaging to the natural resources, especially during wet periods.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 5,700,000 | 0 | 5,700,000 |
| | **5,700,000** | **0** | **5,700,000** |

AECOM
250 Apollo Drive
Chelmsford, MA 01824
www.aecom.com

978 905 2100 tel
978 905 2101 fax

November 3, 2017

Mr. John H. Rogers
Director of Project Development and
Right of way Acquisition
Department of Public Works
110 Western Avenue
Framingham, MA 01702

RE: FY19 Planning Level Cost Estimate
Worcester Road Water and Sewer Mains (East of Concord St) –Phase I Construction, and Phases II and III Design

Dear Mr. Rogers:

This letter confirms the need for funding for the following project:

**Worcester Road Water and Sewer Mains (East of Concord St) –Phase I Construction, and Phases II and III Design**

| | | |
|---|---|---|
| Opinion of design and construction budget: | | $5,700,000 (water) |
| | | $3,800,000 (sewer) |
| | Total: | $9,500,000 |

Description:
This three-phased project will upgrade and improve the reliability of water and sewer systems on Worcester Road between Concord Street and the Natick town line. Sewers and water mains will be replaced or relined on Worcester Road itself, and the downstream sewer interceptor that currently runs northward through Natick and a major isolated wetland will be replaced with a new interceptor that runs along accessible roadways. This work will be designed and constructed in three sections: Phase I – Rt 9 eastbound lanes, including the Pierce and Dinsmore neighborhoods; Phase II – Westbound lanes; and Phase III – new rerouted sewer interceptor. The funding request is for the construction of Phase I, and the final design of Phases II and III.

Justification and Comments:
This project is needed because sewers and water mains are undersized and prone to failure as a result of their age and materials, and failures to infrastructure could cause major economic impacts to the businesses and residents in the service area. Most of this infrastructure is between 50 and 100 years old, and the service area includes major portions of Framingham's retail businesses and large apartment complexes, where emergency repairs and the disruption of service and traffic would be very costly and affect quality of the lives of many during outages. The cross-country connector traverses wetlands, which make maintenance access and emergency repairs very costly, extremely difficult, and potentially damaging to the natural resources, especially during wet periods.

This multi-year construction project requires approval and coordination with MassDOT, particularly in minimizing traffic disruptions, and coordination with a large number of businesses and residences. Phase III will require approval and coordination with the Framingham and Natick Conservation Commissions.

AECOM

Key Assets:

4,940 LF water main to be replaced
3,400 LF sewer main to be lined or replaced } Route 9 Eastbound (I)

4,240 LF water main to be replaced
2,000 LF sewer main to be lined or replaced } Route 9 Westbound (II)

5,200 LF north-south sewer connector to be replaced in more accessible alignment (III)

Please do not hesitate to contact me if you have any comments or questions.

Sincerely,

Joseph M. Boccadoro, P.E.
Project Manager
AECOM

# FY2019 Requested: Deferred to FY2020 or beyond

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Sewer/2019/A | **Budget Year:** | 2019 |
| **Project Title:** | Replace 2 Sewer Rack/body/utility Trucks, #704 and 725 | **Scenario:** | Main 2019 |
| **Asset Type:** | PICK UP TRUCKS | **Budget Status:** | Department Request |
| **Department:** | C2-440 - Sewer Enterprise | **Regions:** | |
| **Project Type:** | Water Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

- 2008, meter reading and backflow preventers, #704, $60,131
- 2008, meter reading and backflow preventers, #725, $60,131

## Comments:

Service performance, pride of service and community support are all emphasized by DPW, with vehicle cleanliness an important expression of those, and a responsibility of DPW staff.

## Justification:

All of the existing vehicles being replaced will have exceeded 10 years in service when replaced (and sold), and nearly all are near to or over 100,000 miles or run-hours equivalent. Industry and Framingham DPW experience indicates that above those thresholds maintenance increases substantially to assure service reliability, as do major repairs, none of which provide a return on investment, and they are not sustainable with the current DPW facility and staffing. In addition to daily service for the various Divisions, they all are used for the Department's snow and ice management program, with many also used to respond to community events and emergencies. Snow plowing is particularly destructive to vehicles.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 120,262 | 0 | 120,262 |
| | **120,262** | **0** | **120,262** |

# FY2019 Requested: Deferred to FY2020 or beyond

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Sewer/2019/I | **Budget Year:** | 2019 |
| **Project Title:** | Arlington Street Area Infrastructure Phases 1 and 1B - Design | **Scenario:** | Main 2019 |
| **Asset Type:** | SEWER LINES | **Budget Status:** | Department Request |
| **Department:** | C2-440 - Sewer Enterprise | **Regions:** | |
| **Project Type:** | Sewer Piping | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This funding request is for neighborhood-wide concept design, final design of a first phase of construction, and 60% design of a second phase, which will begin neighborhood and property owner consultation; refine, validate and document project criteria; and identify detailed construction costs and next steps.

## Comments:

In addition to addressing the condition of infrastructure, the repairs, replacements and improvements will enhance this residential and small businesses neighborhood immediately south of Downtown.

## Justification:

Most infrastructure in this neighborhood is in a state of disrepair or inadequacy, including many water mains that are over 100 years old and have fire flow concerns, frequent flooding due to very little drainage infrastructure, with many roads and sidewalks in very poor condition, and without disability accessibility. This project proposes to address these needs in an affordable multiphase implementation that will also reduce disruption to residents, businesses and through-traffic. This project was deferred from the FY2018 request.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 90,000 | 0 | 90,000 |
| | **90,000** | **0** | **90,000** |

November 3, 2017

John H. Rogers
Director of Project Development and Right of Way Acquisition
Town of Framingham – Department of Public Works
110 Western Avenue, Framingham, MA 01702

Re: Arlington Street Area Infrastructure Phases 1 and 1B Design

Mr. Rogers,

This letter confirms the need for $520,000 from the General Fund, and $90,000 from/for Sewer in funding for the following project:

**Project**
Arlington Street Area Infrastructure Phases 1 and 1B – Design

**Summary Description:**
Investigations into the replacement of the ca. 1885 water main in Arlington Street revealed the need to replace not only that water main, but sewer mains also, and almost all other key infrastructure assets in the vicinity. It's now been determined that most infrastructure in the South Framingham neighborhoods bound by Hollis Street, Irving Street, Beaver Dam Brook, and the southern CSX rail yard are in various states of disrepair or inadequacy, including other water mains with reduced fire flow and a high risk of breaks. Addressing them all in a coordinated fashion will reduce the total cost, including for emergency repairs.

Noteworthy in the area is the inadequate and poor condition of drainage systems, both on and serving private development, and the very limited amount of roadway drainage, resulting in frequent flooding at a number of locations. Though no direct damage appears to be a result of that flooding, poor roadway drainage commonly shortens the life of pavement. Also, apparent solutions to the flooding will require excavation alongside, over and under water and sewer lines, with a least total cost solution likely involving adjustments of one or more of the other infrastructure in the area, particularly in the relatively narrow roads where new gas lines were installed in 2016.

Numerous high priority sewer defects have been identified in this area, with cracks, breaks, gaps and infiltration into the pipes and manholes. In addition to the cost of conveying and treating infiltrating water, these conditions are indicative of a high risk of failure, and the need for greater maintenance due to roots, debris and other clogging.

Existing roads in the vicinity range from good to very poor condition (Pratt, Campbell and Hearth), with nearly all sidewalks in at least poor condition. As with many areas in Framingham, there are also many barriers to ADA accessibility.

Engineers | Scientists | Planners | Designers

101 Walnut Street
PO Box 9151
Watertown, Massachusetts 02471
P 617.924.1770
F 617.924.2286

A September 2017 "Arlington Street Improvements Study Report" evaluated and provided recommendations to improve drainage, reduce stormwater flooding, and a plan to repair or replace aging infrastructure such as water and sewer systems, pavement, curbs and sidewalks in the Project area. The study report included:

- Identification of a preferred alternative
- Phasing analysis
- Construction cost estimate
- Recommendations for next steps

The study recommended the project include three (3) construction phases to minimize disturbance to residents, businesses and through traffic, and allow the Town to budget for construction over multiple years. Recommendations for next steps included:

- Concept design of the entire area
- Design of phase 1 of the project to bid documents
- Design of drainage upgrades upstream of phase 1 to 60% design (referred to as Phase 1B)
- Additional hydrologic/hydraulic analysis to estimate impacts on Beaver Dam Brook

**Justification:**
Most infrastructure in this neighborhood is in a state of disrepair or inadequacy, including many water mains that are over 100 years old and have fire flow concerns, frequent flooding due to very little drainage infrastructure, with many roads and sidewalks in very poor condition, and without disability accessibility. This project proposes to address these needs in an affordable multiphase implementation that will also reduce disruption to residents, businesses and through-traffic. This project was deferred from the FY2018 request.

**Key Assets (Phase 1 and 1B):**
6,900 LF roadway to be rehabbed or replaced
14,000 LF sidewalk to be replaced or improved
5,200 LF drain pipes to be new (most), rehabbed or replaced
4,500 LF sewer main to be lined or replaced
4,500 LF water main to be replaced, with some potentially lined

If you should have any questions or require additional information please feel free to call me at 617-607-2766.

Sincerely,

Mark Costa

Project Manager
Markcosta@vhb.com

Tracie Lenhardt

Senior Project Manager
Tlenhardt@vhb.com

October 26, 2016

Ref: 13484.07

Mr. Eric Johnson
Town Engineer
Framingham Dept of Public Works
110 Western Avenue
Framingham, MA 01702

Re: FY-2018 Capital Improvements
Arlington Street Road Area, Sidewalk and Stormwater Improvements - Design

Mr. Johnson,

VHB has prepared this letter to provide a description and cost estimate for the design efforts required for sidewalk and storm water improvements in the Arlington Street area.

The South Framingham neighborhoods bound by Hollis Street, Irving Street, Beaver Dam Brook, and the southern CSX rail yard includes infrastructure in various states of disrepair. This area contains some of the oldest water pipes some in Town. Replacement is need to both mitigate the high risk of water main breaks and to improve fire flow. The area also suffers from inadequate storm water collection and disposal infrastructure, and the adjacencies among all of the subsurface utility infrastructure support a program to replace all needed elements together.

Initial analysis will be performed to identify storm drain improvements needed in the area, and the project will develop the potential/likely phased implementation of water, sewer, road, storm and sidewalk improvements (likely in 3 to 5 phases/years), with goals of addressing them all in a least-cost and least disruptive manner to residents, businesses and through-traffic. The project will include the design and associated survey of a first phase of infrastructure improvements in the Arlington Street.

This project follows the principle of renewing aged sub-surface utilities, while making needed roadway and sidewalk improvements, in a way that minimized total capital cost as well as limiting disruption to residents, businesses and traffic.

The total cost associated with the design of Arlington Street sidewalk and storm water improvements is estimated to be $350,000.

Engineers | Scientists | Planners | Designers

101 Walnut Street
PO Box 9151
Watertown, Massachusetts 02471
P 617.924.1770
F 617.924.2286

If you have any questions, or require additional information, please do not hesitate to contact me.

Sincerely,

Vanasse Hangen Brustlin, Inc.

Caroline Hampton

Caroline Hampton, P.E.

Senior Project Manager

# FY2019 Requested: Deferred to FY2020 or beyond

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Sewer/2019/J | **Budget Year:** | 2019 |
| **Project Title:** | Central Street Corridor Sewer Mains - Design | **Scenario:** | Main 2019 |
| **Asset Type:** | SEWER PROJECTS | **Budget Status:** | Department Request |
| **Department:** | C2-440 - Sewer Enterprise | **Regions:** | |
| **Project Type:** | Sewer Piping | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This project is for investigations and design of the replacement and lining of aged and distressed sewer mains along the Central Street corridor (Highgate to Purchase). Existing sections across private properties and along the river shoreline will be relocated to the road right of way wherever reasonable. Investigations will be performed on the sewer lines discharging into this main, particularly those that are asbestos cement pipe (ACP), or are suspected to be large infiltration or inflow sources.

## Comments:

Much of the investigations and survey can and will be used for the water mains in the corridor (design funding authorized at the 2017 ATM, with that survey also used for the anticipated future road design). A significant amount of ACP is likely to be removed.

## Justification:

In addition to their age and extensive sections observed to be in poor condition, with likely infiltration and high risk of failures and back ups, annual jetting and root intrusion treatment are required to assure function, with access for that work made difficult and costly where on private properties and along the shoreline. This project was deferred from the FY2018 requests.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 800,000 | 0 | 800,000 |
| | **800,000** | **0** | **800,000** |

AECOM

AECOM
250 Apollo Drive
Chelmsford, MA 01824
www.aecom.com

978 905 2100 tel
978 905 2101 fax

November 7, 2017

Mr. John H. Rogers
Director of Project Development and
Right of way Acquisition
Department of Public Works
110 Western Avenue
Framingham, MA 01702

RE: FY19 Planning Level Cost Estimate
Central Street Corridor Sewer Main – Design

Dear Mr. Rogers:

This letter confirms the need for funding for the following project:

**Central Street Corridor Sewer Main - Design**

Opinion of design budget: $800,000 (sewer).

Description: This project is for investigations and design of the replacement and lining of aged and distressed sewer mains along the Central Street corridor (Highgate to Purchase). Existing sections across private properties and along the river shoreline will be relocated to the road right of way wherever reasonable. Investigations will be performed on the sewer lines discharging into this main, particularly those that are asbestos cement pipe (ACP), or are suspected to be large infiltration or inflow sources.

Justification and Comments: In addition to their age and extensive sections in poor condition, with likely infiltration and high risk of failures and back ups, annual jetting and root intrusion treatment are required to assure function, with access for that work made difficult and costly where on private properties and along the shoreline. *This project was deferred from the FY2018 requests.*

Much of the investigations and survey can and will be used for the water mains in the corridor (design funding authorized at the 2017 ATM, with some also used for the anticipated future road design. A significant amount of ACP is likely to be removed.

Key Assets: 8,000 LF sewer main replacement or lining

Please do not hesitate to contact me if you have any comments or questions.

Sincerely,

Joseph M. Boccadoro, P.E.
Project Manager
AECOM

# FY2019 Requested: Deferred to FY2020 or beyond

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Sewer/2019/K | **Budget Year:** | 2019 |
| **Project Title:** | Pleasant Street Area Sewers and Pump Stations Study & Design | **Scenario:** | Main 2019 |
| **Asset Type:** | WATER/SEWER PUMP STATIONS | **Budget Status:** | Department Request |
| **Department:** | C2-440 - Sewer Enterprise | **Regions:** | |
| **Project Type:** | Sewer Non-Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This study and preliminary design is expected to result in the replacement of 2 small and outdated pump stations (Flanagan and McQuinn) with deep gravity sewers, and the needed improvements to the downstream Pleasant Street station, as well as the replacement or lining of 2 miles of sewer, and the removal of 1,100 feet of asbestos cement pipe (ACP).

## Comments:

See the related water mains project. Increased cost efficiencies will result when sharing surveyed basemapping, and designing needed water main replacements in the same sections of roads.

## Justification:

All 3 pump stations are in need of overhaul or replacement, as are many of the sewer mains, and a 2016 study indicates the cost effectiveness of this plan, with further investigation and refined study to confirm or modify that, and provide direction for the subsequent design. The Lanewood Avenue siphon under the MWRA aqueduct that is downstream of McQuinn could be eliminated also, further reducing maintenance needs and the risk of back ups.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 400,000 | 0 | 400,000 |
| | **400,000** | **0** | **400,000** |

# FY2019 Requested: Deferred to FY2020 or beyond

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Water/2019/A | **Budget Year:** | 2019 |
| **Project Title:** | Replace 4 Water Rack/body/utility Trucks, #615, 616, 617 and 623 | **Scenario:** | Main 2019 |
| **Asset Type:** | PICK UP TRUCKS | **Budget Status:** | Department Request |
| **Department:** | C1-450 - Water Enterprise | **Regions:** | |
| **Project Type:** | Water Rolling Equipment | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

- 2008, for utility locates, #615, $60,131
- 2008, main repairs, #616, $60,131
- 2008, meter reading and backflow preventers, #617, $60,131
- 2008, first response support, #623, $60,131

## Comments:

Service performance, pride of service and community support are all emphasized by DPW, with vehicle cleanliness an important expression of those, and a responsibility of DPW staff.

## Justification:

All of the existing vehicles being replaced will have exceeded 10 years in service when replaced (and sold), and nearly all are near to or over 100,000 miles or run-hours equivalent. Industry and Framingham DPW experience indicates that above those thresholds maintenance increases substantially to assure service reliability, as do major repairs, none of which provide a return on investment, and they are not sustainable with the current DPW facility and staffing. In addition to daily service for the various Divisions, they all are used for the Department's snow and ice management program, with many also used to respond to community events and emergencies. Snow plowing is particularly destructive to vehicles.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 240,524 | 0 | 240,524 |
| | **240,524** | **0** | **240,524** |

MHQ VEHICLES ■ EQUIPMENT ■ GEAR

# QUOTE

## CUSTOMER

| | | | |
|---|---|---|---|
| Contact Name: | Fred Davies | Date: | October 25, 2017 |
| Company/Dept: | Town of Framingham Department of Public Works | Valid for: | 60 Days* |
| Street Address: | 100 Western Ave. | Customer #: | 10141 |
| City, State, Zip: | Framingham, MA 01702 | Contract: | GBPC/BAPERN 201 |
| Phone: | 508-532-6070 | Sales Rep: | Greg Keith |
| E-Mail: | fjd@framinghamma.gov | | |

| CONTRACT LINE REFERENCE | LINE DESCRIPTION | | | |
|---|---|---|---|---|
| | | | | |
| F3F | 2018 Ford F350 SRW 4x4 cab chassis regular cab | | | |
| | 141" wheel base - 60" cab to axle | | | |
| | 6.2 liter V/8 gasoline engine | | | |
| | 6 speed automatic transmission | | | |
| | AM/FM stereo w/ clock | | | |
| | Spare tire on wheel | | | |
| 43C | 110V/400 Watt Power Outlet (1) | | | |
| LS | 40/MINI CONSOLE/40 vinyl seat (required for 43C) | | | |
| 473 | Snow Plow prep package | | | |
| 59H | Center high mount stop lamp | | | |
| | Factory upfitter switches | | | |
| 213 | Electronic shift on the fly four wheel drive | | | |
| 531 | Trailer tow package | | | |
| 18B | Factory cab steps - RC | | | |
| 90L | Heated mirrrors, power windows & door locks - | | | |
| SP101 | Factory special paint W6695F Yellow | | | |
| 2.04 | 8' Diamond/Meyer snow plow package | | | |
| | 8' Diamond/Meyer poly snow foil | | | |
| | 8' Diamond/Meyer cutting edge | | | |
| TDX | LT275/75RX18 BSW all terrain tires | | | |
| 64F | 18" heavy duty steel wheels | | | |
| N/A | Driver's door mounted incandescent spotlight | | | |
| 8.32 | 9' Fiberglass utility body - Yellow Gel Coat finish | | | |
| | Mobile Radio | | | |
| | Emergency/safety lights | | | |
| | | **TOTAL** | | **$60,131.00** |
| | | | | |

# FY2019 Requested: Deferred to FY2020 or beyond

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Water/2019/F | **Budget Year:** | 2019 |
| **Project Title:** | Hollis Street (Barbieri) Water System Redundancy – Design and Construction | **Scenario:** | Main 2019 |
| **Asset Type:** | WATER - MAINS | **Budget Status:** | Department Request |
| **Department:** | C1-450 - Water Enterprise | **Regions:** | |
| **Project Type:** | | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This project will provide a 2,800 foot new water main from Bates Road Extension to Thayer Street, using the existing sewer easement on CSX property and another that extends east from Thayer Street.

## Comments:

## Justification:

Currently, a single 8-inch cast iron water main installed in 1910 feeds the entire neighborhood. Providing a redundant water service (loop) to the neighborhood east of Waushakum Pond, at the Ashland town line, will reduce risks associated with potential failure of the water main on Hollis Street and will improve water quality.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 1,325,000 | 0 | 1,325,000 |
| | **1,325,000** | **0** | **1,325,000** |

AECOM
250 Apollo Drive
Chelmsford, MA 01824
www.aecom.com

978 905 2100 tel
978 905 2101 fax

November 3, 2017

Mr. John H. Rogers
Director of Project Development and
Right of way Acquisition
Department of Public Works
110 Western Avenue
Framingham, MA 01702

RE: FY19 Planning Level Cost Estimate
Hollis Street (Barbieri) Water System Redundancy – Design and Construction

Dear Mr. Rogers:

This letter confirms the need for funding for the following project:

**Hollis Street (Barbieri) Water System Redundancy – Design and Construction**

Opinion of design and construction budget: $1,325,000 (water)

Description: This project is to provide final design, bidding, and construction for 2,780 linear feet of 8-inch ductile iron water main from Bates Road Extension to Thayer Street, using the existing sewer easement on CSX property and another that extends east from Thayer Street.

Justification and Comments: The project will provide for redundancy in service to the neighborhood east of Waushakum Pond at the Ashland town line, currently vulnerable to loss of water because it is served only by a single 8-inch cast iron water main on Hollis Street, installed in 1910. Loss of service during maintenance or repair events affects approximately 200 parcels, most of which are single-family residences. Providing a redundant water service (loop) will enable continued service when a main is off line, reducing risks and the general inconvenience associated with potential failure of the water main on Hollis Street. Furthermore, the second main connected to the neighborhood will substantially improve water circulation, leading to improved water quality.

Key Assets: 2,780 LF new 8" ductile iron water main

Please do not hesitate to contact me if you have any comments or questions.

Sincerely,

Joseph M. Boccadoro, P.E.
Project Manager
AECOM

# FY2019 Requested: Deferred to FY2020 or beyond

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Water/2019/G | **Budget Year:** | 2019 |
| **Project Title:** | Pleasant St and Temple St Water Mains - Design | **Scenario:** | Main 2019 |
| **Asset Type:** | WATER - MAINS | **Budget Status:** | Department Request |
| **Department:** | C1-450 - Water Enterprise | **Regions:** | |
| **Project Type:** | Water Piping | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This funding request is for design of the replacement of 14,000 feet of water mains, including surveyed base mapping.

## Comments:

See related Pleasant St Area Sewers and Pump Stations.

## Justification:

The water mains along these streets require replacement due to their age, condition, size and materials, and will be less costly if constructed at the same time as the planned sewer repairs and replacements in Pleasant Street. All are more than 7 decades old, some are substandard 6-inch diameter, and some are asbestos cement, with the unlined cast iron water mains having interior tuberculation and corrosion that results in decreased capacity. Replacement will assure adequate flow and substantially increase reliability of the water system in this area.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 825,000 | 0 | 825,000 |
| | **825,000** | **0** | **825,000** |

**Stantec Consulting Services Inc.**
5 Burlington Woods Drive Suite 210, Burlington MA 01803-4542

November 3, 2017

**Attention: John Rogers**
Director of Project Development and Right of Way Acquisition
Town of Framingham - Department of Public Works
110 Western Avenue
Framingham, MA 01702

Dear Mr. Rogers,

**Reference: Pleasant Street/Temple Street Water Mains - Designs**

This letter confirms the need for $825,000 in funding for the design of the replacement of 14,000 feet of water mains, including surveyed base mapping for Pleasant Street and Temple Street.

Pleasant Street and the northern end of Temple Street have 8-inch and 6-inch diameter water mains that are unlined cast iron installed around 1920 and asbestos cement (AC) installed in 1939, all of which are near the end of their anticipated service life. The cast iron pipe has interior tuberculation and corrosion, with reduced flow capacity and service reliability, and the asbestos cement pipe deteriorates more quickly than other types of pipe. The August 2017 Draft Water System Master Plan Report identified Pleasant Street as a critical water main needing high priority improvement to address unlined cast iron mains. Replacement will restore capacity to the water system in this area and improve reliability.

The project extent is along Pleasant from the west end of the AC pipe (between Waveney and Pine Hill Roads, near 1000 Pleasant Street) to Worcester Road, and the section of Temple Street water main from Pleasant Street to the Mass Pike, which is approximately 14,000 linear feet of new 8-inch ductile iron pipe. The project will also include replacement of all water services to the curb stops, and hydrants.

It is anticipated that design for this work would begin in June 2019 and would have a duration of one year.

Regards,

**STANTEC CONSULTING SERVICES INC.**

Erica Lotz

Erica Lotz, P.E., ENV SP
Associate
Phone: (781) 221-1163
Erica.Lotz@stantec.com

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Design with community in mind

# FY2019 Requested: Deferred to FY2020 or beyond

| | | | |
|---|---|---|---|
| **Project Number:** | DPW/Water/2019/H | **Budget Year:** | 2019 |
| **Project Title:** | Worcester Road (9/90) Water Main - Design | **Scenario:** | Main 2019 |
| **Asset Type:** | WATER - MAINS | **Budget Status:** | Department Request |
| **Department:** | C1-450 - Water Enterprise | **Regions:** | |
| **Project Type:** | Water Piping | **Active:** | Yes |
| **Year Identified:** | 2017 | **Manager:** | |
| **Start Date:** | | **Project Partner:** | |
| **Est. Completion Date:** | | | |

## Description:

This funding request is for design of the 1,700 foot water main replacement along the south side of the roadway west of the Mass Pike, or potential lining rehabilitation, including surveyed base mapping.

## Comments:

See related construction of this project anticipated for FY2020.
This is one of the last remaining century-old water mains in the 9/90 and Tech Park areas.

## Justification:

This water main requires replacement due to age, condition and material, with the unlined cast iron pipe more than 10 decades old, and both interior tuberculation and exterior corrosion that result in decreased capacity and reliability. Replacement will assure adequate flow and substantially increase reliability of the water system in this area.

## Description:

## Comments:

## Project Forecast

| Year | Total Expense | Total Revenue | Difference |
|---|---|---|---|
| 2019 | 135,000 | 0 | 135,000 |
| | **135,000** | **0** | **135,000** |

**Stantec Consulting Services Inc.**
5 Burlington Woods Drive Suite 210, Burlington MA 01803-4542

November 3, 2017

**Attention: John Rogers**
Director of Project Development and Right of Way Acquisition
Town of Framingham - Department of Public Works
110 Western Avenue
Framingham, MA 01702

Dear Mr. Rogers,

**Reference: Worcester Road (9/90) Water Main - Design**

This letter confirms the need for $135,000 in funding for the design of the 1,700 foot water main water main replacement along the south side of Worcester Road, west of the Massachusetts Turnpike, or potential lining rehabilitation, including surveyed base mapping.

The 1,700 linear foot water main in Worcester Road between Crossing Boulevard and Massachusetts Turnpike (Interstate 90) overpass consists of 8-inch diameter unlined cast iron water main installed ca. 1900 that is at the end of its anticipated service life. The cast iron has a buildup of interior tuberculation and corrosion, which results in reduced flow capacity. The Draft Water System Master Plan Report dated August 2017 identified Worcester Road as a critical water main needing high priority improvement to address unlined cast iron mains. The Worcester Road area supports a key commercial area of the Town. Replacement will restore capacity to the water system in this area and improve reliability. The project includes replacement of all water services to the curb stops, and hydrants.

It is anticipated that design for this work would begin in June 2019 and would have a duration of one year.

Regards,

**STANTEC CONSULTING SERVICES INC.**

Erica Lotz

Erica Lotz, P.E., ENV SP
Associate
Phone: (781) 221-1163
Erica.Lotz@stantec.com

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